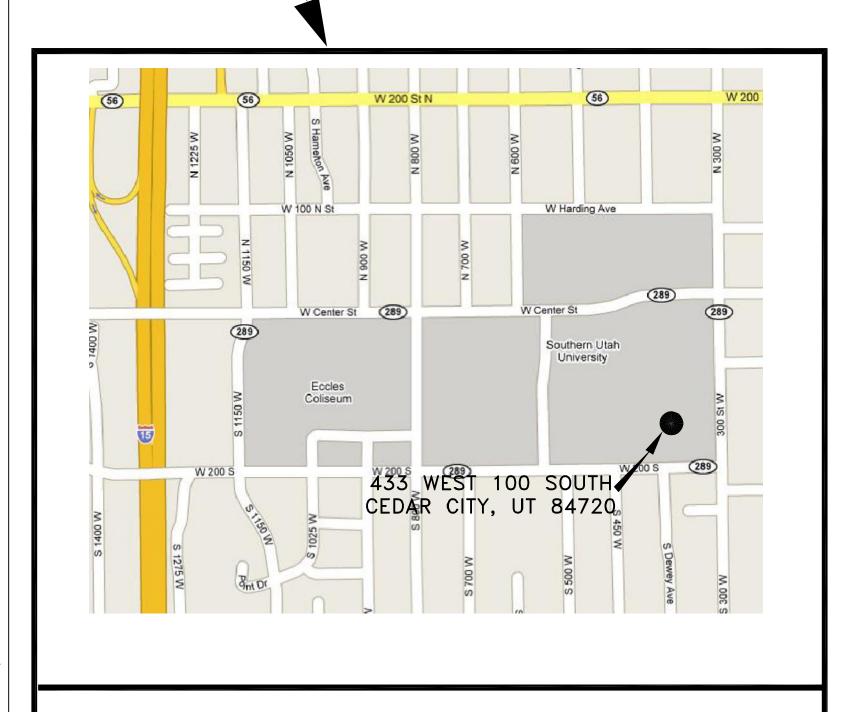


SOUTHERN UTAH UNIVERSITY ELECTRONIC LEARNING CENTER CEDAR CITY, UTAH

DFCM PROJECT #06128730

CONSTRUCTION DOCUMENTS

OCTOBER 27, 2006



LOCATION MAP

NO SCALE

BOX ELDER

J U A B

PREPARED BY



architecture · planning · design services 1135 South West Temple, Ste. A

Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373 Ralph Stanislaw

CONSULTANTS

MECHANICAL

WHW Consulting Engineers 1354 East 3300 South Suite 200 Salt Lake City, Utah 84106 St. George, UT 84770 Steve Wadsworth

ELECTRICAL

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	CODE ANALYSIS	CLIENT			
	APPLICABLE CODES				
	Year Year				
	nternational Building Code 2003 National Electrical Code 2002				
	nternational Mechanical Code2003 Uniform Code forN.A				
	nternational Fire Code <u>2003</u> ADA Accessibility				
	ternational Energy Guildelines 2002 conservation Code 2003				
١.	Occupancy and Group:B	DESIGNE			
	OFFICE				
	Change in Use: Yes Nox Mixed Occupancy: Yes Nox				
	Special Use and Occupancy (e.g. High Rise, Covered Mall):				
	Seismic Design Category: N.A. Design Wind Speed: N.A. mph				
; .	Type of Construction (circle one):				
	$egin{array}{cccccccccccccccccccccccccccccccccccc$				
		CONSULT			
).	Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):				
	North:0 South:0 East:0 West:0				
	Mixed Occupancies: <u>NO</u> Nonseparated Uses: <u>NO</u>				
:	Sprinklers:				
	Required: NO Provided: YES Type of Sprinkler System: EXISTING				
:					
).	Number of Stories:1 Building Height: _EXISTING				
l :	Actual Area per Floor (square feet):				
	Tabular Area: 9000 SF				
	Area Modifications:				
:					

b) Sum of the Ratio Calculations for Mixed Occupancies:

K. Fire Resistance Rating Requirements for Building Elements (hours).

Hours Assembly Element

N.A.

0 N.A. Fire Walls

0 N.A. Fire Partitions

Listing

d) Unlimited Area Building: Yes _____ No __x_ Code Section: ____

N.A. Floors - Ceiling Floors

N.A. Shaft Enclosures

a) Water Closets - Required (m) ___1 __ (f) __1 __ Provided (m) __1 __ (f) __1

b) Lavatories - Required (m) ____1__ (f) ___1__ Provided (m) ___1__ (f) ___1__

Roofs - Ceiling Roofs N.A. Exterior Doors and Windows 0

Smoke Partitions

Exit Width Provided: 3'-0"

c) Total Allowable Area for:

Exterior Bearing Walls

Interior Bearing Walls

Partitions - Permanent

Structural Frame

Fire Barriers

Exterior Non-Bearing Walls 0

Design Occupant Load: 25

Exit Width Required: 3.75"

c) Bath Tubs or Showers: ____

M. Minimum Number of Required Plumbing Facilities:

d) Drinking Fountains: ____1 Service Sinks: ___1

1) One Story: <u>27,000</u>

2) Two Story: A_a(2) 27,000

3) Three Story: A_a(3) N.A.

PROFESSIONAL SEAL

Assembly

Listing

N.A.

N.A.

N.A.

N.A.

N.A.

N.A.

N.A.

Hours



SOUTHERN

UTAH

STATE BUILDING # 204 433 WEST 100 SOUTH

CEDAR CITY, UTAH 84720

ISSUE			
MARK	DATE	DESCRIPTION	
DFCM	CONTRACT	NO:	077005
DFCM	PROJECT	NO:	06128730
ARCHI	PLEX PROJ	IECT NO:	0618.01

DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
ARCHIPLEX PROJECT NO:	0618.01
DRAWN BY:	E. RUSTEN
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	OCTOBER 27, 2006
KEY PLAN	

SHEET TITLE

COVER SHEET

G000

AND 7:00 AM, MON - FRI

- 1. REFERENCE OF DRAWINGS IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT APPLICATION OF ANY DRAWING
- 2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER
- 3. CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY NEW CONSTRUCTION. MATCH EXISTING SURFACE FINISH OR MATERIAL.
- 4. CONTRACTOR SHALL INVESTIGATE THE EXISTENCE OF ANY ASBESTOS ASSOCIATED WITH AREAS OF THE BUILDING TO BE REMODELED. CONTRACTOR IS TO INSURE ALL ASBESTOS IS REMOVED FROM THESE
- 5. CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.
- 6. CONTRACTOR SHALL MODIFY OR RELOCATE EXISTING MECHANICAL AND ELECTRICAL AS REQUIRED FOR INSTALLATION OF NEW WORK.
- 7. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR
- 8. EXISTING MATERIAL NOTED " TO BE RETURNED TO OWNER " SHALL BE REMOVED FROM THE SITE BY THE OWNER. CONTRACTOR SHALL COORDINATE WITH THE OWNER.
- 9. THE CONTRACTOR SHALL COORDINATE THE SEQUENCING OF WORK WITH THE OWNER AND ARCHITECT TO
- MEET THE OWNERS SCHEDULE 10. COORDINATE "NOISY" OPERATIONS (CONCRETE CUTTING, JACKHAMMERING, ETC.) WITH THE OWNER FOR
- 11. CONTRACTOR SHALL LEAVE WORK AREAS BROOM CLEAN AND FREE OF TOOLS, EQUIPMENT, ETC., AT THE END OF EACH SHIFT. ALL CONSTRUCTION ACTIVITY SHALL BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTOR SHALL PROTECT OWNERS EXISTING CONSTRUCTION AND EQUIPMENT ADJACENT TO NEW CONSTRUCTION. CONTRACTOR SHALL CLEAN ALL SURFACES TO "LIKE NEW" CONDITION AT THE CONPLETION OF WORK.

SCHEDULING TO AVOID DISRUPTION OF DAILY OPERATIONS. NOISY WORK SHOULD OCCUR BETWEEN 4:00 PM

- 12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR RESTRICTING AND CONTAINING DUST AND DEBRIS GENERATED FROM DEMOLITION AND CONSTRUCTION BY MEANS OF CHUTES, TEMPORARY PARTITIONS, OR PROTECTIVE COVERINGS.
- 13. THE INSTALLATION OF NEW MATERIALS AND EQUIPMENT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE MATERIAL AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- 14. THE CONTRACTOR SHALL CHALK THE LOCATION OF PARTITIONS AND MILLWORK FOR SITE INSPECTION PRIOR TO CONSTRUCTION, FABRICATION, OR INSTALLATION.
- 15. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING GLASS SURFACES, REMOVING TRASH AND DEBRIS, REMOVING TOOLS AND TEMPORARY CONSTRUCTION MATERIALS PRIOR TO PROJECT COMPLETION.
- 16. THE SPRINKLER CONTRACTOR (IF APPLICABLE) WILL BE RESPONSIBLE FOR FINAL TIE-IN TO THE FIRE ALARM SYSTEM.
- 17. ARCHIPLEX IS RESPONSIBLE FOR ARCHITECTURAL DRAWINGS ONLY.
- 18. THE SCOPE AND BASIS OF THE WORK SHALL INCLUDE THE CONTRACT DOCUMENTS PRESENTED BY THE ARCHITECT, MECHANICAL, ELECTRICAL, AND THE CONDITIONS FOR THE WORK AS DESCRIBED IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.
- 19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL CONSTRUCTION PROCEDURES AND JOB SITE SAFETY AND SHALL ENSURE COMPLIANCE WITH APPLICABLE CODES, RULES AND REGULATIONS OF THE
- 20. THE GENERAL CONTRACTOR SHALL PROVIDE PROOF OF INSURANCE FOR LIABILITY IN THE AMOUNTS SET BY THE OWNER.
- 21. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING BUILDING PERMITS AS REQUIRED FOR WORK AND SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED INSPECTIONS DURING THE COURSE OF THE WORK. THE PERMIT OF OCCUPANCY SHALL BE CONVEYED TO THE TENANT.
- 22. THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE SCOPE OF THE WORK BEFORE SUBMISSION OF BIDS.
- 23. THE INFORMATION CONTAINED IN THE DRAWINGS IS BASED ON EXISTING DOCUMENTS AND LIMITED FIELD MEASUREMENT. THE WORK DESCRIBED HEREIN MAY REQUIRE ADJUSTMENT OR MODIFICATION TO CONFORM TO THE EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL VERIFY CRITICAL DIMENSIONS AND SHALL BE RESPONSIBLE FOR FIELD MEASURING EXISTING CONDITIONS PRIOR TO STARTING THE WORK AND DURING PROGRESS OF THE WORK.
- 24. THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK SHOULD DISCREPANCIES BE FOUND IN THE CONTRACT DOCUMENTS. ADDITIONAL WORK OR DEMOLITION REQUIRED, AS A RESULT OF FAILURE TO DO SO SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 25. THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS AND/OR SIZES. THE GENERAL CONTRACTOR SHALL NOT DEVIATE FROM DIMENSIONS INDICATED ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE PROCEEDING WITH PROCUREMENT OF MATERIALS REQUIRED TO BE ACCURATELY FITTED TO THE BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF MEASUREMENT AND THE PRECISE FITTING OF THE WORK.
- 26. THE GENERAL CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE, SCHEDULE OF COSTS, AND LIST OF SUBCONTRACTORS WITHIN ONE (1) WEEK AFTER CONTRACT AWARD. THE GENERAL CONTRACTOR SHALL PROVIDE SUBCONTRACTORS WITH COMPLETE SETS OF CONTRACT DOCUMENTS DURING THE BID PHASE AND DURING THE CONSTRUCTION PHASE.
- 27. SHOULD MATERIAL SUBSTITUTIONS BE REQUIRED, THE GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN LIST OF SUBSTITUTIONS WITHIN ONE (1) WEEK AFTER CONTRACT AWARD. SUBSTITUTIONS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- 28. THE CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT THAT ARE NEW AND UNDAMAGED EXCEPT FOR ITEMS SPECIFICALLY NOTED AS REUSED OR RELOCATED. DEFECTIVE OR DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT. THE OWNER RESERVES THE RIGHT TO REJECT MATERIALS OR WORK IF THOSE ITEMS ARE NOT FOUND TO BE IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.

GENERAL NOTES (CONT.)

- 29. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND SECURITY OF DELIVERED
- 30. THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AND UP TO DATE SET OF CONTRACT DOCUMENTS AT THE JOB SITE.
- 31. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF CONTRACT DOCUMENTS AND FOR THE COORDINATION OF VARIOUS TRADES IN THE CONTRACT TO ASSURE THE EXPEDITIOUS COMPLETION
- 32. THE GENERAL CONTRACTOR SHALL ENSURE THAT THE WORK SHALL BE PERFORMED BY COMPETENT MECHANICS SKILLED IN THEIR TRADE. WORKMANSHIP DEEMED SUBSTANDARD OR UNACCEPTABLE BY THE ARCHITECT WILL BE REJECTED AND SHALL BE CORRECTED BY THE CONTRACTOR.
- 33. THE GENERAL CONTRACTOR SHALL CORRECT OR REPAIR EXISTING CONDITIONS THAT AFFECT THE DESIGN INTENT AND THE QUALITY OF THE FINISHED PRODUCT.
- 34. THE GENERAL CONTRACTOR SHALL REPAIR OR REPLACE DAMAGE OR THEFT OF NEW OR EXISTING CONSTRUCTION CAUSED BY THE CONTRACTOR'S NEGLIGENCE OR BY INADEQUATE PROTECTION OR SECURITY MEASURES PROVIDED DURING CONSTRUCTION.
- 35. THE GENERAL CONTRACTOR SHALL PROVIDE OPERATION AND MAINTENANCE MANUALS FOR ITEMS THAT REQUIRE PERIODIC SERVICE AND ADJUSTMENT. THE GENERAL CONTRACTOR SHALL CONVEY THE MANUALS TO THE OWNER AT SUBSTANTIAL COMPLETION.
- 36. THE GENERAL CONTRACTOR SHALL GUARANTEE UNCONDITIONALLY FOR A PERIOD OF ONE YEAR FROM THE DATE OF PERMIT OF OCCUPANCY, MATERIALS, EQUIPMENT, APPLIANCES, WORKMANSHIP AND INSTALLATION. DURING THIS PERIOD. THE CONTRACTOR SHALL ADJUST, REPAIR OR REPLACE AT NO COST TO THE OWNER. ITEMS, EQUIPMENT OR WORKMANSHIP FOUND TO BE DEFECTIVE.
- 37. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A MARKED-UP SET OF DRAWINGS WITH THE APPLICATION FOR FINAL PAYMENT. THE SET WILL BE USED AS THE BASIS FOR DEVELOPING RECORD
- 38. THE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS AND ASSOCIATED DOCUMENTATION, ARE THE SOLE PROPERTY OF ARCHIPLEX GROUP. UNAUTHORIZED OR INCORRECT USE OF THESE DOCUMENTS IS
- 39. ALL DETAILS APPLY WHETHER OR NOT SPECIFICALLY REFERENCED.
- 40. UNLESS OTHERWISE NOTED, DIMENSIONING ON PLANS IS AS FOLLOWS: TO FACE OF ALL WALLS AND/OR
- 41. CONTRACTOR SHALL CROSS-CHECK DETAILS, DIMENSIONS, NOTES, AND ALL REQUIREMENTS SHOWN ON THE ARCHITECTURAL DRAWINGS WITH RELATED REQUIREMENTS SHOWN ON THE CIVIL, LANDSCAPE, INTERIOR DESIGN, MECHANICAL, PLUMBING, ELECTRICAL, SECURITY, TELECOMMUNICATIONS AND/OR OTHER ARCHITECTURAL DRAWINGS CONTAINED AS PART OF THE CONSTRUCTION DOCUMENTS OF THIS PROJECT. ANY CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR
- 42. UNLESS SPECIFICALLY NOTED AS "NOT IN CONTRACT", SYSTEMS SHOWN IN DRAWINGS ARE INTENDED TO BE CODE COMPLIANT, FURNISHED, INSTALLED AND TURNED OVER TO OWNER IN PROPER FUNCTIONING CODE COMPLIANT CONDITION. ALL WORK TO ACCOMPLISH THIS MUST BE CONSIDERED IN BASE BID (I.E. CONTRACT
- 43. ALL WORK TO BE CONSTRUCTED PER GOVERNING CODES WHICH ARE HEREIN INCORPORATED INTO THESE DOCUMENTS. CODE REQUIRED WORK TO BE INCLUDED IN BASE BID (CONTRACT SUM).
- 44. OPENINGS AROUND PIPES AND OTHER PENETRATIONS THROUGH FLOORS SHALL BE PACKED WITH FIRE SAFING MATERIAL FOR DRAFT STOP PROTECTION. LARGE VOIDS IN CONCEALED SPACES SHALL BE FILLED WITH FIRE SAFING MATERIALS OVER GYPSUM WALLBOARD FORM WORK SECURED TO PERIMETER SURFACES.
- 45. ADEQUACY OF FIRE PROTECTION AND SAFETY DURING CONSTRUCTION SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY. NFPA STANDARDS NO. 10 AND 241 ARE RECOMMENDED AS WELL AS REQUIREMENTS OF
- 46. WORK TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- 47. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK BETWEEN TRADES.
- 48. WHERE DAMAGE TO INSTALLED FINISHES OCCUR DURING CONSTRUCTION, CONTRACTOR SHALL RESTORE SUCH FINISH TO MATCH UNDAMAGED ADJACENT SURFACES.
- 49. PROVIDE BLOCKING IN WALLS AS REQUIRED IN ORDER TO SECURE ALL EQUIPMENT (ACCESSORIES, HANDRAILS, CASEWORK, ETC) PROVIDE BLOCKING AS REQUIRED FOR WALL OR CEILING SUPPORTED ITEMS.
- VERIFY REQUIREMENTS PER MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE. 50. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATION OF ALL WALL ACCESS PANELS NOT INDICATED ON ARCHITECTURAL & FOR ALL REQUIRED ACCESS PANELS. CONTRACTOR TO PROVIDE ALL CODE REQUIRED ACCESS PANELS.
- 51. EFFECTIVELY ISOLATE ALL DISSIMILAR MATERIALS TO PREVENT CORROSION BY ELECTROLYSIS ACTION OR OTHER CAUSES, AS RECOMMENDED BY THE RESPECTIVE PRODUCT MANUFACTURER AND/OR SUPPLIER.
- 52. THERE ARE NO ASBESTOS PRODUCTS SPECIFIED AND NONE SHALL BE USED ANYWHERE ON THIS PROJECT.
- 53. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL EQUIPMENT PADS REQUIRED BY EQUIPMENT MANUFACTURER. ACTUAL SIZE AND LOCATION TO BE COORDINATED WITH APPROVED EQUIPMENT
- 54. HVAC AND ELECTRICAL EQUIPMENT SHOWN ON ARCHITECTURAL DRAWINGS ARE INDICATED FOR GENERAL REFERENCE ONLY. COORDINATE AND LOCATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- 55. FIRE RATINGS SHALL BE MAINTAINED AT FIRE RATED PARTITIONS BY PROVIDING FIRE SAFING MATERIAL AT GAPS AND VOIDS CREATED BY PENETRATIONS, STRUCTURAL MEMBERS AND INTERSECTIONS WITH ADJACENT SURFACES. REFER TO FIRE PROTECTION LISTINGS FOR SPECIFIC ASSEMBLIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A COMPLETE CODE COMPLIANT CONSTRUCTION.
- 56. CONTRACTOR SHALL INVESTIGATE ALL CONDITIONS AND DIMENSIONS OF THE PROJECT, AND SHALL NOTIFY ARCHITECT OR ENGINEER ABOUT ANY CONDITION REQUIRING MODIFICATIONS OR CHANGES PRIOR TO PROCEEDING WITH THE WORK.

ABBREVIATIONS

ADO - AUTOMATIC DOOR OPERATOR

AT - ACOUSTICAL CEILING TILE

JT – JOINT LAM - LAMINATE LM - LATEX MASTIC FLOORING LT – LIGHT LTG - LIGHTING MANF - MANUFACTURER MAT - MATERIAL

MECH - MECHANICAL MIN - MINIMUM

AWF - ACOUSTICAL WALL FABRIC (TACKABLE) AWP - ACOUSTICAL WALL PANEL BO — BOTTOM OF BP - BRICK PAVERS (UNIT PAVERS)

AT (CL) - CLEANROOM ACOUSTICAL CEILING TILE

BD - BOARD BIT — BITUMEN BLD - BUILDING

A.D. - ACCESS DOOR

A.P. ACCESS PANEL

ADJ - ADJUSTABLE

ALT – ALTERNATE

AP - ACCESS PANEL

ALUM - ALUMINUM

AF - ACCESS FLOORING

BLK - BLOCK BLKG - BLOCKING BR - BRICK (UNIT MASONRY) BM – BEAM

> C - CONCRETE CAB - CABINET CC - COLOR CODE

CEF - CONDUCTIVE ELASTOMERIC (LIQUID) FLOORING CMU - CONCRETE MASONRY UNITS (UNIT MASONRY) CP - CARPET (WITHOUT CUSHION BROADLOOM)

CPT - CARPET TILE CT - CERAMIC TILE (FLOOR BASE AND WALL)

CJ - CONTROL JOINT CLG - CEILING

CNTR - COUNTER COMP - COMPACTED COMP - COMPRESSIBLE

COM - COMPOSITION COND - CONDITION

CONFG - CONFIGURE CONT - CONTINUOUS D.B. - DOUBLE BUNK DES - DESIGNATION

DIA – DIAMETER DIM - DIMENSION DISP - DISPENSER

D.O. - DOOR OPENING DTL - DETAIL DWGS - DRAWINGS

EA - EACH E.F. – EXHAUST FAN EL - ELEVATION

ELEC - ELECTRICAL EFTR - EXISTING FINISH TO REMAIN EPY - EPOXY (COATINGS) EQUIP — EQUIPMENT

EX - EXISTING EXP - EXPOSED FD - FLOOR DRAIN FIN - FINISH FLR - FLOOR

FLSHG - FLASHING FRM - FRAME FRMG - FRAMING GA – GAGE

GALV — GALVANIZED GEN – GENERAL GL - GLASS

GWB - GYPSUM WALL BOARD SYSTEMS GYP - GYPSUM H.C. - H/C - HANDICAP

HM - HOLLOW METAL HORZ – HORIZONTAL HP - HORSEPOWER

HR - HOUR HW - HARDWARE SET (FINISH OR BUILDERS HARDWARE) INSUL - INSULATION

MC - MULTICOLOR COATING AD101 AE101 M.O. - MASONRY OPENING MOD - MODIFIED AE102 MTL - METAL NAT - NATURAL NF - NATURAL FINISH NIC - NOT IN CONTRACT NO - NUMBER NOM - NOMINAL OC - ON CENTER O.D. - OVERFLOW DRAIN OPNG - OPENING

OPP - OPPOSITE P - PAINT (EXTERIOR, INTERIOR, TRANSPARENT FINISHES) PC - PRECAST (ARCHITECTURAL PRECAST CONCRETE PANELS) PCP - PORTLAND CEMENT PLASTER

PFW - POLYPROPYLENE FABRIC WALL COVERING PL – PLASTER P LAM - PLASTIC LAMINATE

PLYWD - PLYWOOD PNL - PANEL PREP - PREPARATION PUT - POLYURETHANE QT - QUARRY TILE

RAF - RESILIENT ATHLETIC FLOORING RB - RESILIENT BASE (RUBBER OR VINYL) RE: - REFER TO

REFL - REFLECTED REINF - REINFORCEMENT REQ'D - REQUIRED R.D. - ROOF DRAIN RF - RAISED RUBBER FLOORING

RTD — RATED S.B. - SINGLE BUNK SC - HIGH BUILD GLAZED COATING (SPECIAL COATING)

SEC - SECURITY SP - SPECIAL FACED

SPEC - SPECIAL (ARCHITECT'S CHOICE) SPEC - SPECIFICATIONS ST - STONE (CAST) S STL - STAINLESS STEEL

SCHED - SCHEDULE SHT - SHEET SIM - SIMILAR SS - STAINLESS STEEL STL - STEEL

STRUC - STRUCTURE TO - TOP OF THK - THICKNESS TRTD - TREATED TT - TERRAZZO TILE (PLASTIC MATRIX)

TYP - TYPICAL UL - UNDERWRITERS LABORATORY U.N.O. - UNLESS NOTED OTHERWISE VCT - RESILIENT TILE FLOORING (VINYL COMPOSITION TILE)

VERT - VERTICAL VIF - VERIFY IN FIELD VP - VENEER PLASTER

W - WALL COVERING (VINYL COATED FABRIC) WB - WALL BORDER

WD - WOOD WIND - WINDOW WSF - WELDED SEAM SHEET FLOORING WT - WEIGHT

ARCHITECTURAL LEGEND



REVISION INDICATION REFERENCE ELEVATION

OR WORKING POINT FIRE EXTINGUISHER 8 VALVE CABINET

> FIRE EXTINGUISHER 8 VALVE CABINET (DETENTION TYPE)

> > FIRE EXTINGUISHER

EXIT SIGN WITH OR WITHOUT DIRECTIONAL ARROW

W #

DOOR REFERENCE WINDOW REFERENCE

FIRE HOSE VALVE CABINET

INDEX OF DRAWINGS

GENERAL G000 COVER SHEET

DRAWING INDEX, ABBREVIATIONS, LEGEND, AND GENERAL NOTES

ARCHITECTURAL

DEMOLITION PLAN FLOOR PLAN ALTERNATE FLOOR PLAN & RCP

AE103 ALTERNATE DETAILS ALTERNATE RCP AE104

REFLECTED CEILING PLAN AND DETAILS COMPUTER LAB INTERIOR ELEVATIONS AND DETAILS AE401

DOOR AND FINISH SCHEDULES AND DETAILS

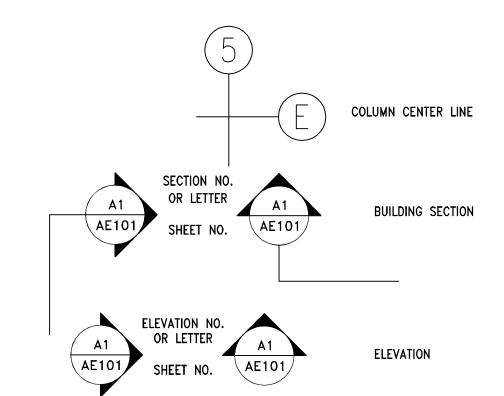
MECHANICAL

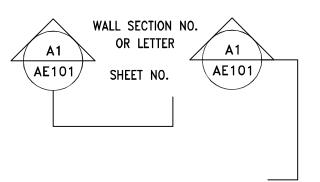
MECHANICAL GENERAL NOTES AND LEGEND ME101 MECHANICAL FLOOR PLAN NEW AND DEMOLITION MECHANICAL SCHEDULE AND DETAILS

ELECTRICAL SYMBOLS, NOTES, AND SCHEDULES E002 **ELECTRICAL SPECIFICATIONS** DEMOLITION PLAN LIGHTING PLAN E301 POWER PLAN

ELECTRICAL DIAGRAMS

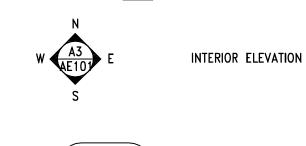
ARCHITECTURAL LEGEND CONT'D





A1 \ DETAIL NO.

 Δ E101/SHEET NO.





WALL SECTION

A1 \ DETAIL NO. Δ E101/ SHEET NO.

ENLARGED SECTION DETAIL

SOUTHERN

ELECTRONIC LEARNING CENTER UNIVERSITY BUILDING # 70 STATE BUILDING # 204 433 WEST 100 SOUTH CEDAR CITY, UTAH 84720

DESIGNER

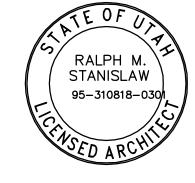
CLIENT



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



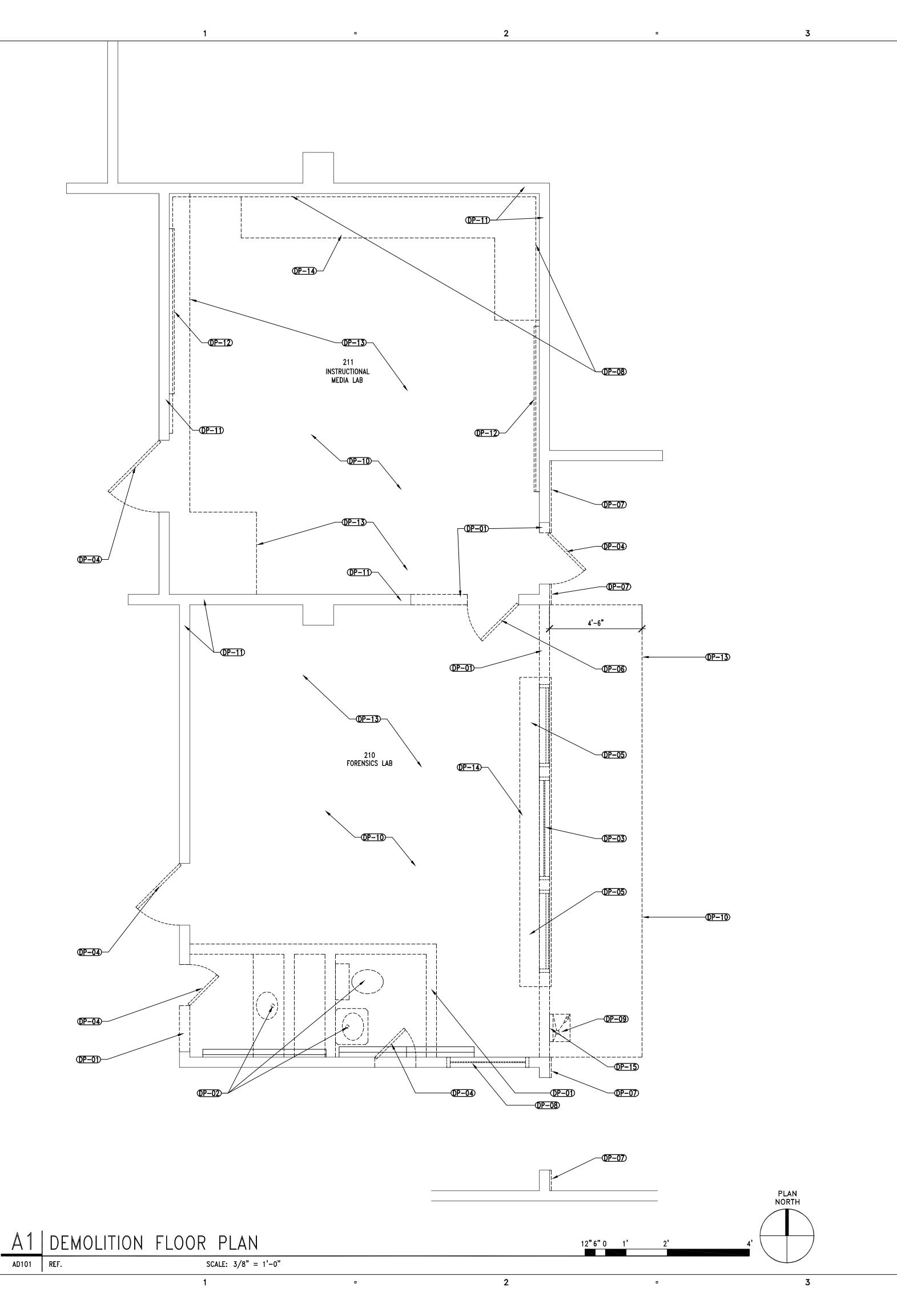
ISSUE MARK DATE DESCRIPTION

DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
ARCHIPLEX PROJECT NO:	0618.0
DRAWN BY:	E. RUSTEN
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	OCTOBER 27, 2006
KEY PLAN	

SHEET TITLE

DRAWING INDEX

G001



GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

4. DASHED LINES REPRESENT WALLS AND DOORS TO BE REMOVED.

5. CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES FROM DAMAGE DURING DEMOLITION AND REPAIR OR REPLACE ANY MATERIAL THAT IS DAMAGED.

6. COVER RETURN AIR OPENINGS BEFORE AND DURING CONSTRUCTION.

DEMOLITION PLAN KEYNOTES

İ	(DP-01)	DASHED WALLS TO BE REMOVED TYP.
	OP-02	REMOVE ALL PLUMBING FIXTURES AND CAP SERVICES
	<u>OP-03</u>)	WINDOW TO BE REMOVED
	<u>OP-04</u>)	REMOVE EXISTING DOOR, FRAME, AND HARDWARE
	<u>OP-05</u>)	OVERHEAD DOOR AND HOOD TO BE REMOVED
	<u>OP-06</u>)	DUTCH DOOR W/ 1/2 LEAF TO BE REMOVED
	OP-07)	DASHED LINE INDICATES EXTENT OF WALL PANELING AND CARPET BASE TO BE REMOVED ALONG THIS WALL.
	<u>OP-08</u>)	REMOVE EXISTING WIRE MOLDING AND CAP SERVICE
	OP-09)	EXISTING DRINKING FOUNTAIN TO BE RELOCATED — CAP LINE UNTIL RELOCATED
	<u>OP-10</u>	REMOVE AND DISCARD EXISTING CARPET, PREP FLOOR AS REQUIRED TO RECEIVE NEW FINISH.
	OP-11)	PREPARE EXISTING WALLS TO RECEIVE NEW FINISH
	OP-12)	REMOVE EXISTING CORK BOARD — CONSULT OWNER FOR STORAGE LOCATION
	<u>OP-13</u>)	REMOVE AND DISCARD EXISTING CEILING AND LIGHT FIXTURES ABOVE INCLUDING CEILING RECESS AND DARK ROOM POCKET.
	<u>OP-14</u>)	REMOVE AND DISCARD EXISTING COUNTER TOP

(DP-15) REMOVE STROBE AND HORN FOR RELOCATION

CLIENT

SOUTHERN UTAH UNIVERSITY

ELECTRONIC LEARNING CENTER
UNIVERSITY BUILDING # 70
STATE BUILDING # 204
433 WEST 100 SOUTH
CEDAR CITY, UTAH 84720

DESIGNER

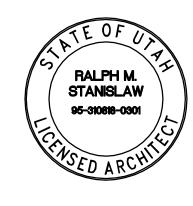


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CONSULTANTS

PROFESSIONAL SEAL



MARK	DATE	DESCRIPTION	
DFCM	CONTRACT	NO:	077005
DFCM	PROJECT I	06128730	
ARCHI	PLEX PROJ	0618.01	
DRAWI	N BY:	E. RUSTEN	
CHECK	KED BY:	R. STANISLAW	

SCALE: 3/8"=1'-0"

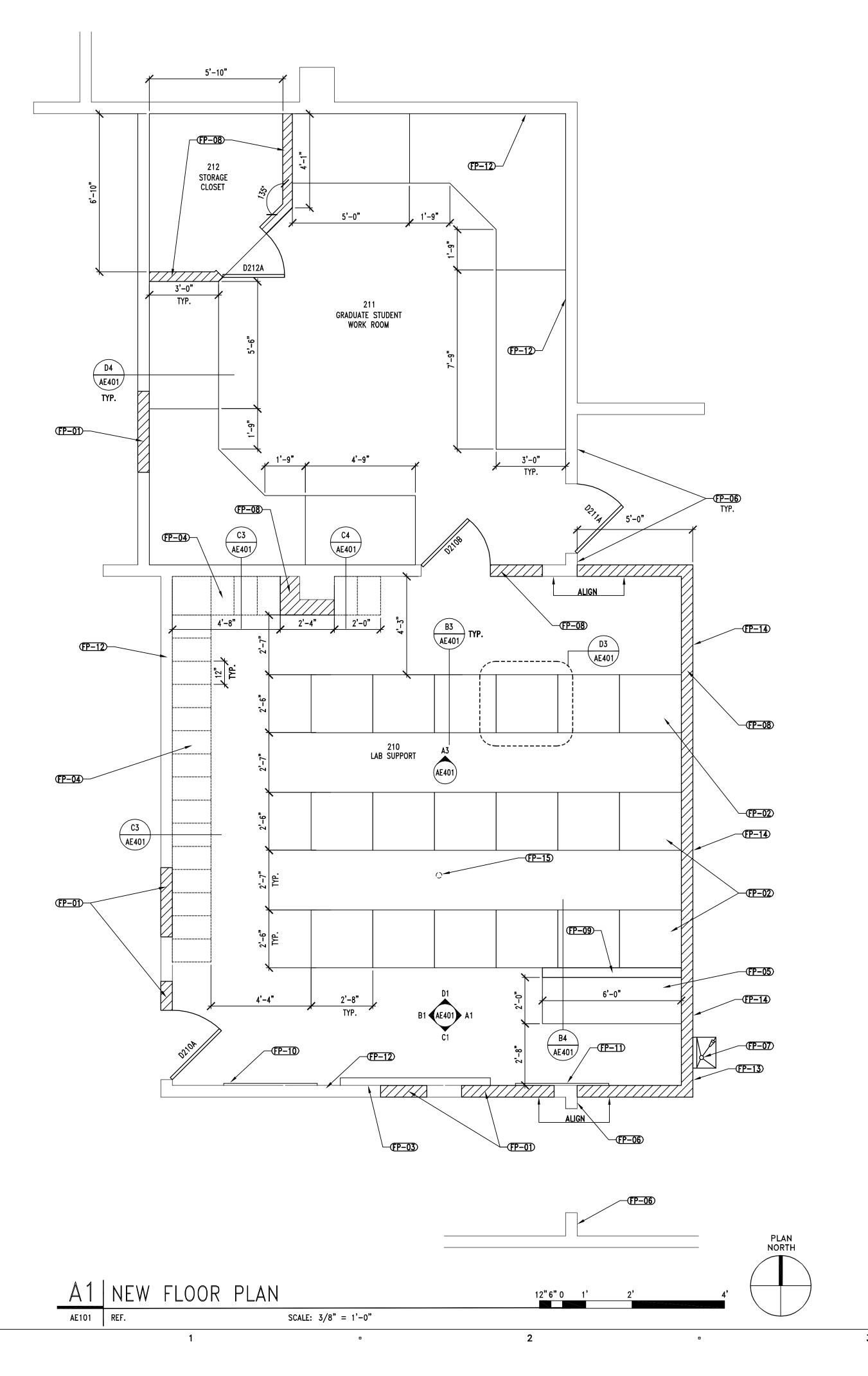
DATE: OCTOBER 27, 2006

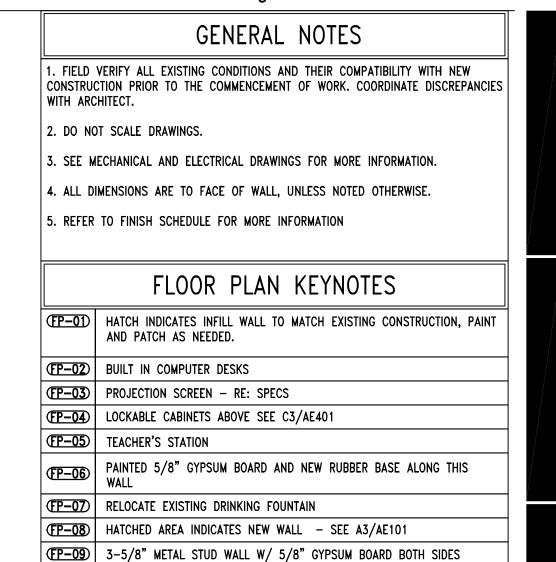
KEY PLAN

SHEET TITLE

DEMOLITION PLAN

AD101





TOP OF WALL 3'-6" - 1 X 6 HARDWOOD CAP RE: SPEC.

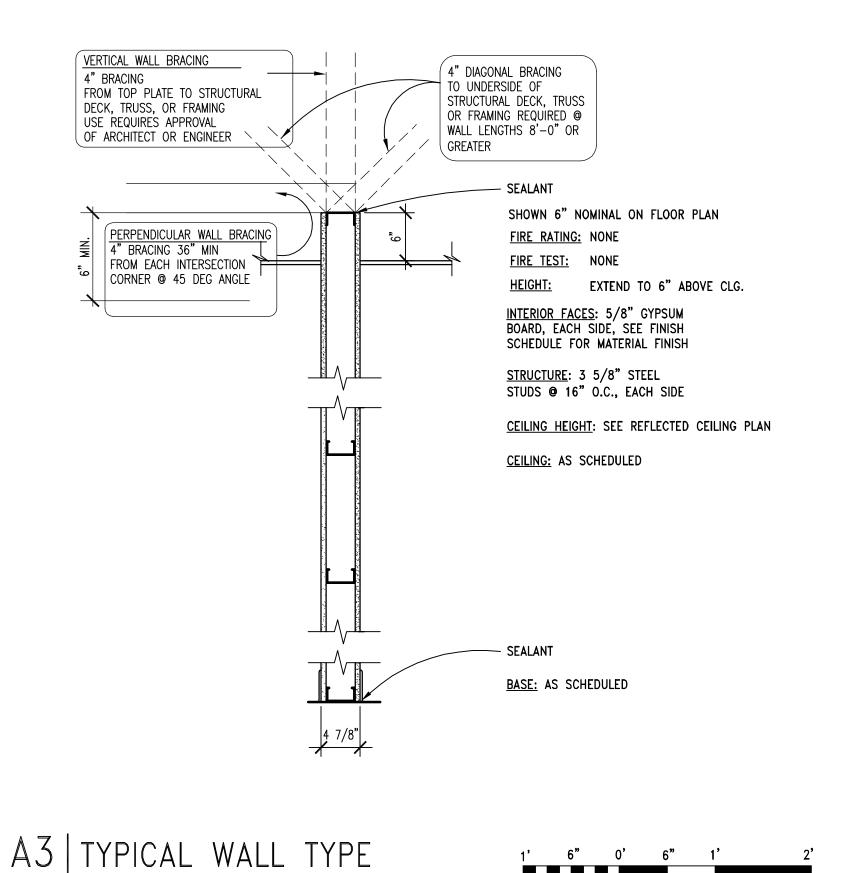
(FP-14) CUT AND SUPPORT CEILING LIGHTS AND TILES ALONG THIS EDGE

(FP-10) CORK BOARD RE: SPEC.

(FP-15) OVERHEAD PROJECTOR

(FP-12) PATCH AND PAINT AS REQUIRED
(FP-13) RELOCATE FIRE STROBE AND ALARM

(FP-11) WHITE BOARD WRITING SURFACE RE: SPEC.



SCALE: 1" = 1'-0"

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ISSUE



MARK	DATE	DESCRIPTION	
DFCM	CONTRACT	NO:	077005
DFCM	PROJECT I	06128730	
ARCHIE	PLEX PROJ	0618.01	
DRAWN	I RY·	S. FYFE	

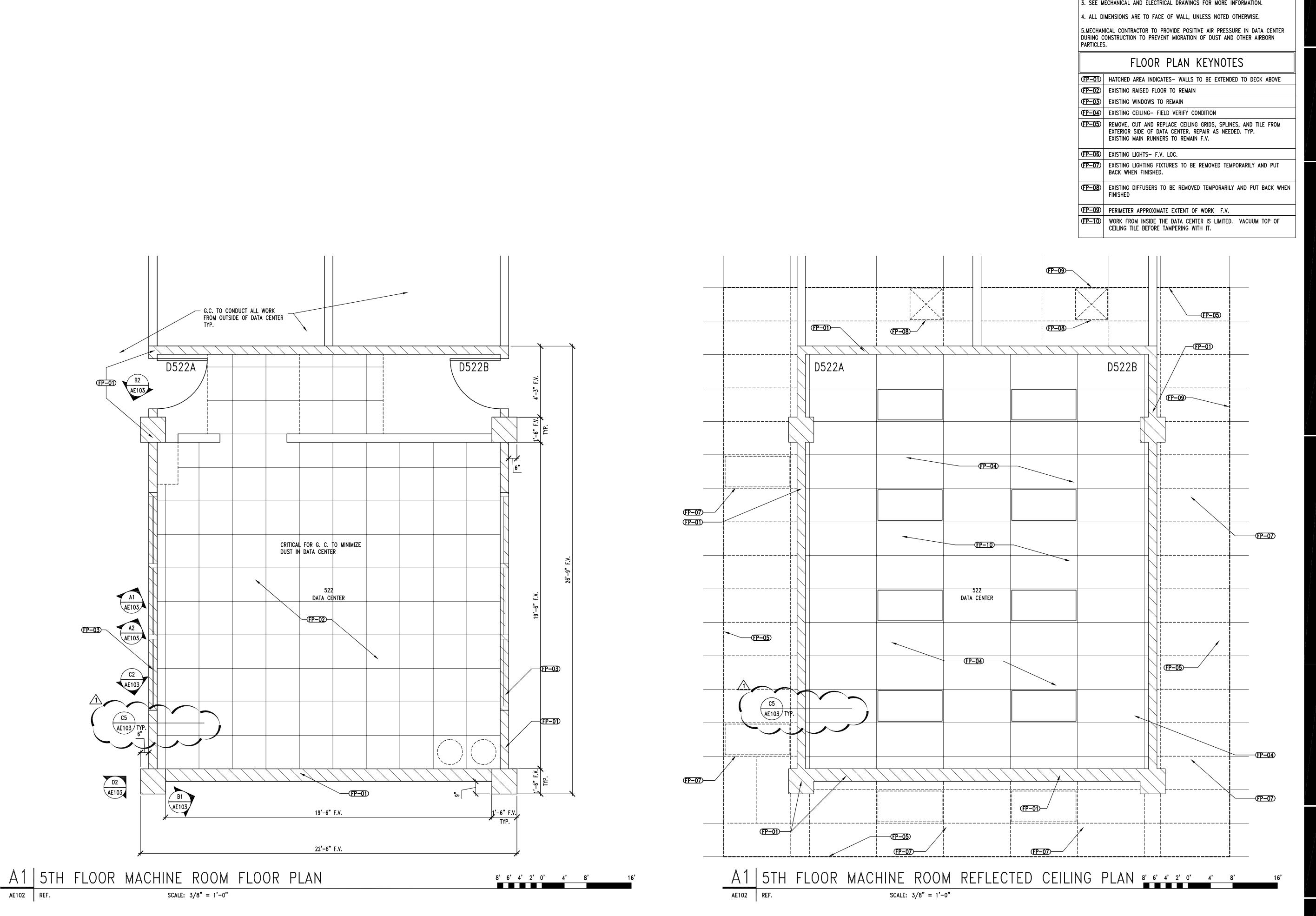
DFCM PROJECT NO:	06128730
ARCHIPLEX PROJECT NO:	0618.01
DRAWN BY:	S. FYFE
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 27, 2006
KEY PLAN	

SHEET TITLE

FLOOR PLAN

AE101

1' 6" 0' 6" 1' 2'



3

AE102 REF.

GENERAL NOTES

5

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

5

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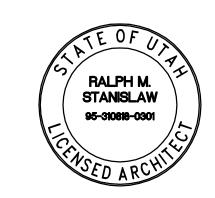
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GROU



1220F		
	11/9/06	DFCM PLAN REVIEW
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
ARCHIPLEX PROJECT NO:	0618.01
DRAWN BY:	E. RUSTEN
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 27, 2006

KEY PLAN

SHEET TITLE

ALTERNATE #1



D2 | EXISTING FLEX DUCT



C2 | EXISTING T.O.W. BRACING SCALE: N.S. AE103 REF.



B2 | EXISTING CONDUIT/ WIRE AE103 REF. SCALE: N.S.

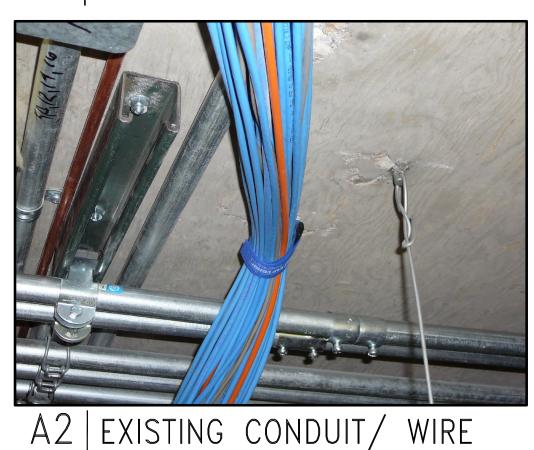


SCALE: N.S.

A1 EXISTING ELECTRICAL BOX AE103 REF. SCALE: N.S.

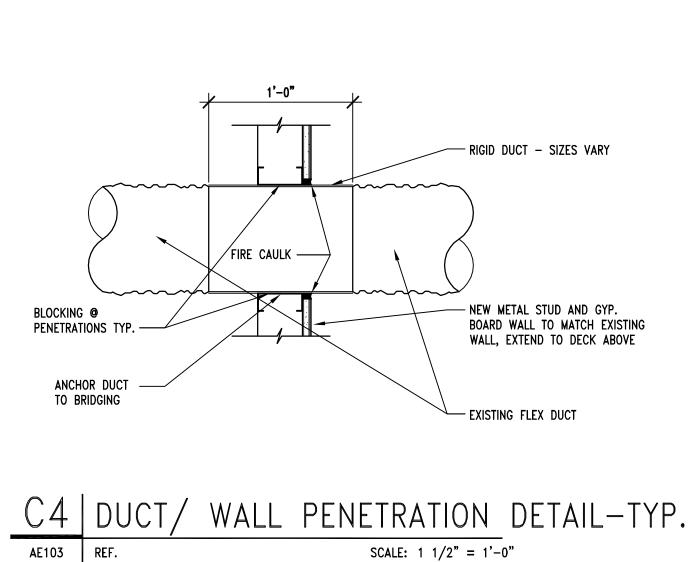
B1 | EXISTING SPRINKLER PIPE

AE103 REF.

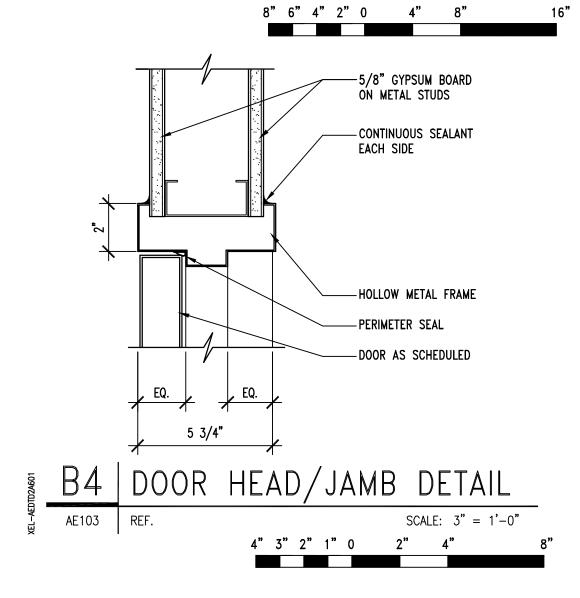


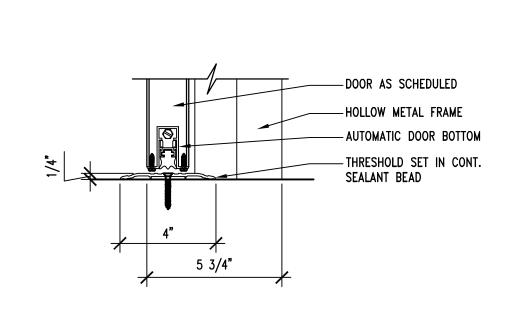
SCALE: N.S.

AE103 REF.

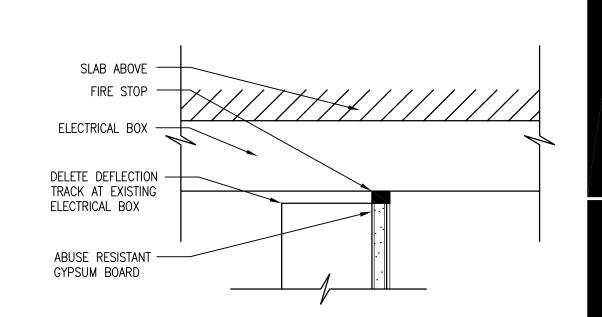


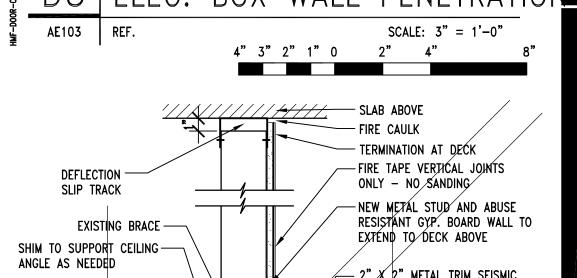
AE103 REF.

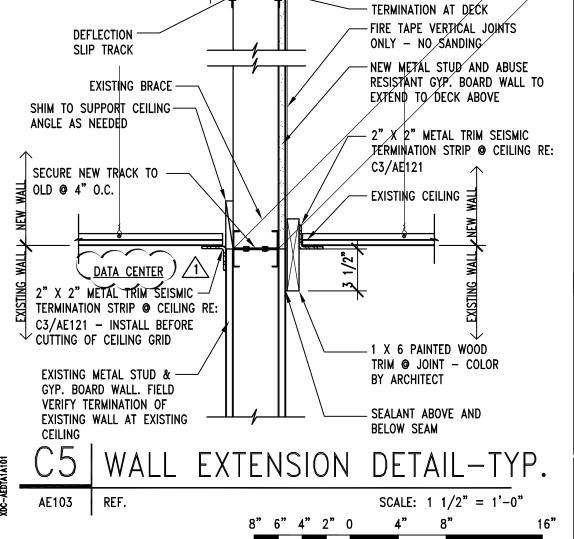


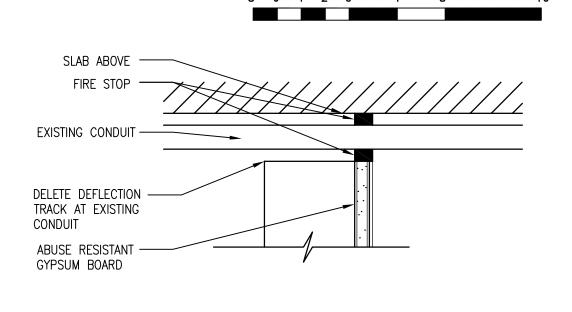


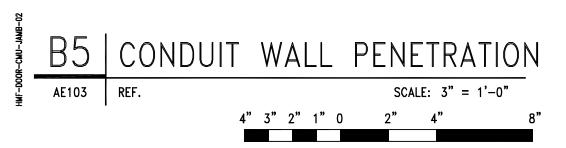


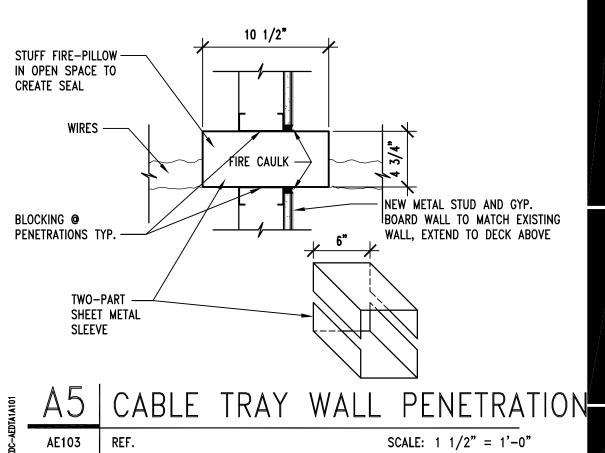












8" 6" 4" 2" 0 4" 8"

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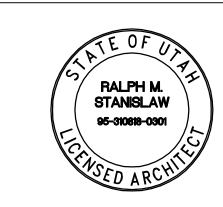
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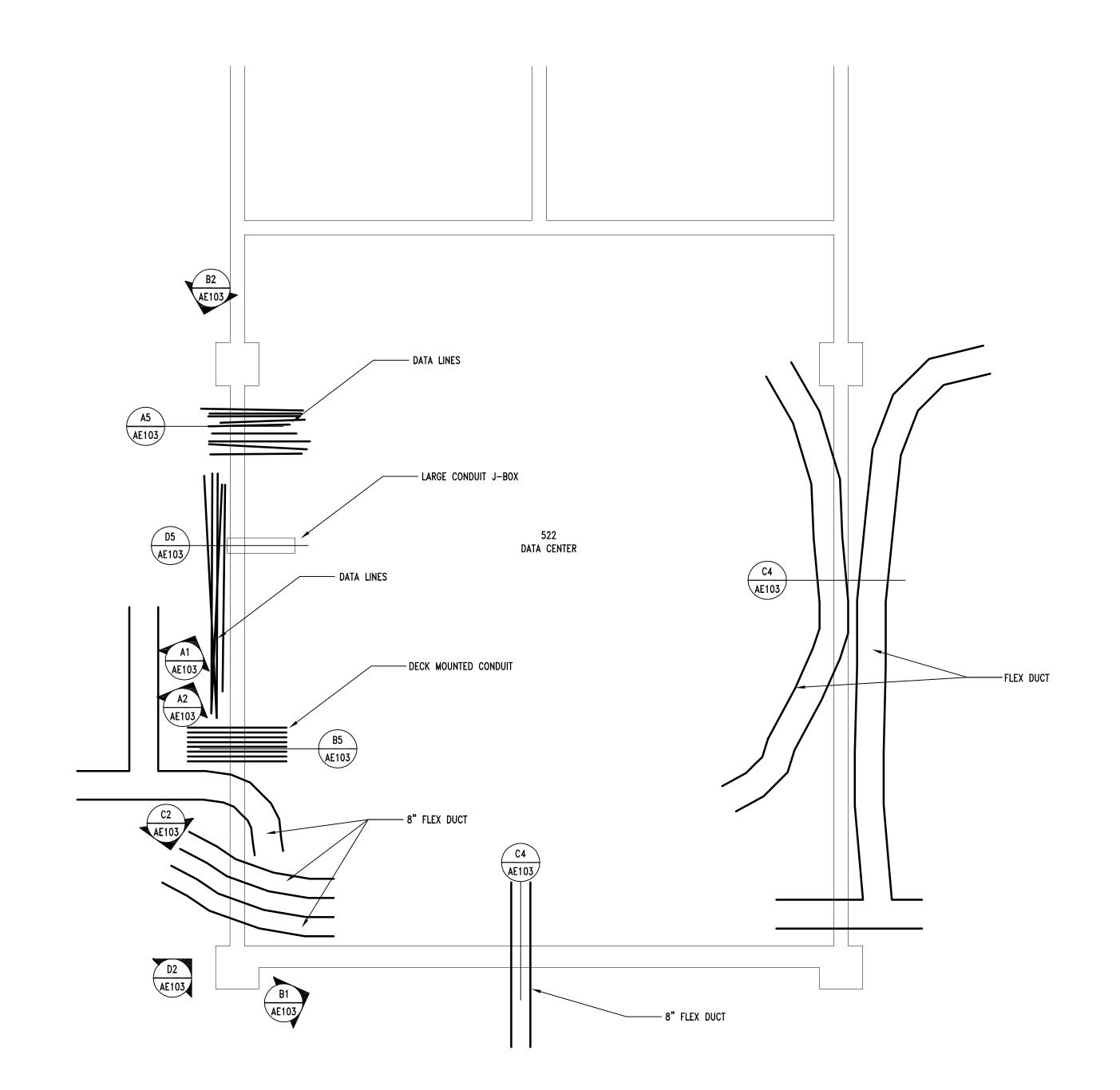


ISSUE						
1	11/9/06	DFCM	PLAN	REVIEW		
MARK	DATE	DESC	RIPTIO	N		
DFCM	CONTRACT	NO:			0770	05
l				_		

DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
ARCHIPLEX PROJECT NO:	0618.01
DRAWN BY:	E. RUSTEN
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 27, 2006
KEY PLAN	

SHEET TITLE

ALTERNATE #1 DETAILS



3

3

A2 5TH FLOOR MACHINE ROOM REFLECTED CEILING PLAN (ABOVE CEILING GRID)

SCALE: 3/8" = 1'-0"

SCALE: 3/8" = 1'-0" 8' 6' 4' 2' 0' 4' 8'

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MARK	DATE	DESCRIPTION

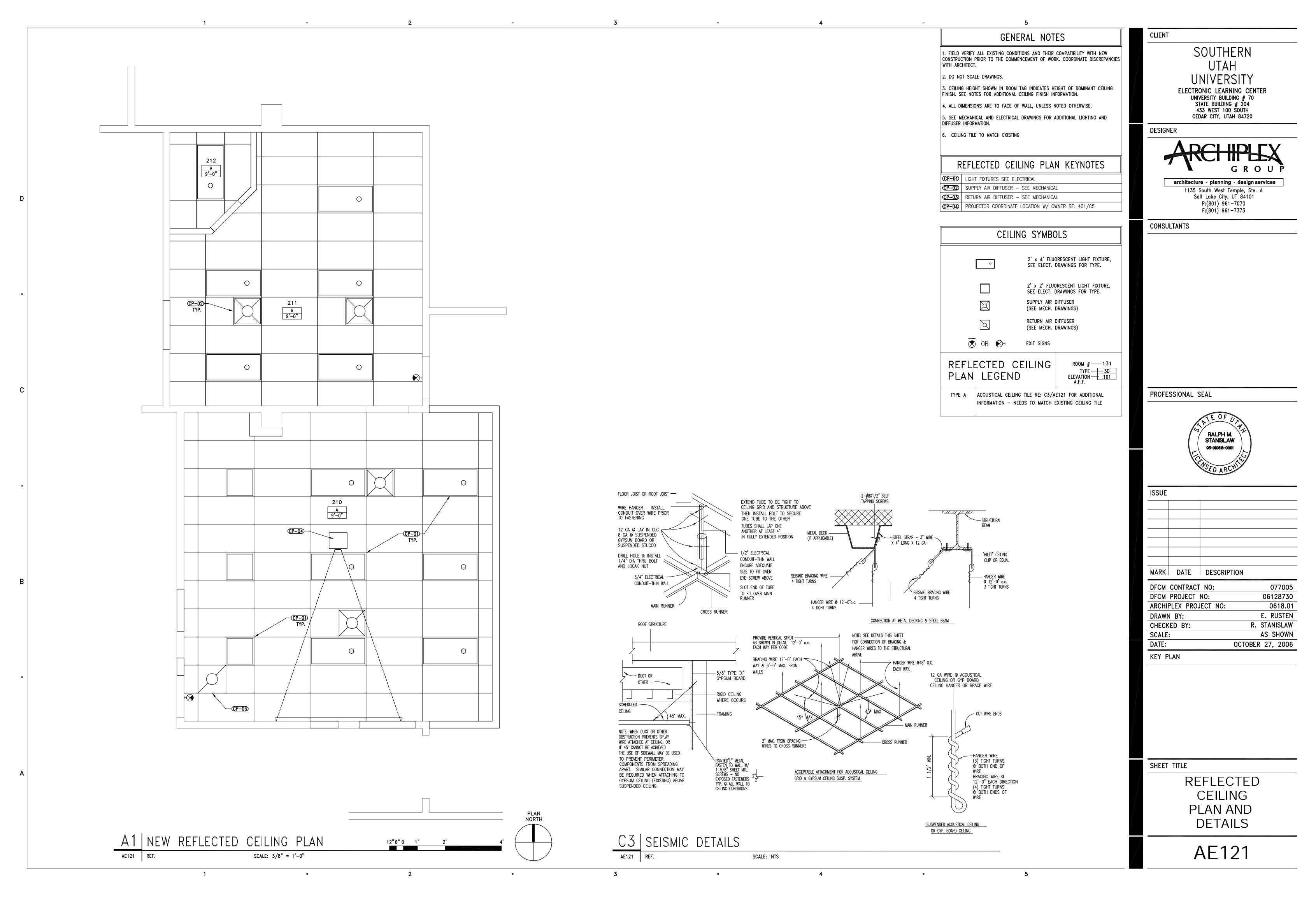
DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
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DRAWN BY:	E. RUSTEN
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SCALE:	AS SHOWN
DATE:	OCTOBER 27, 2006
KEY PLAN	

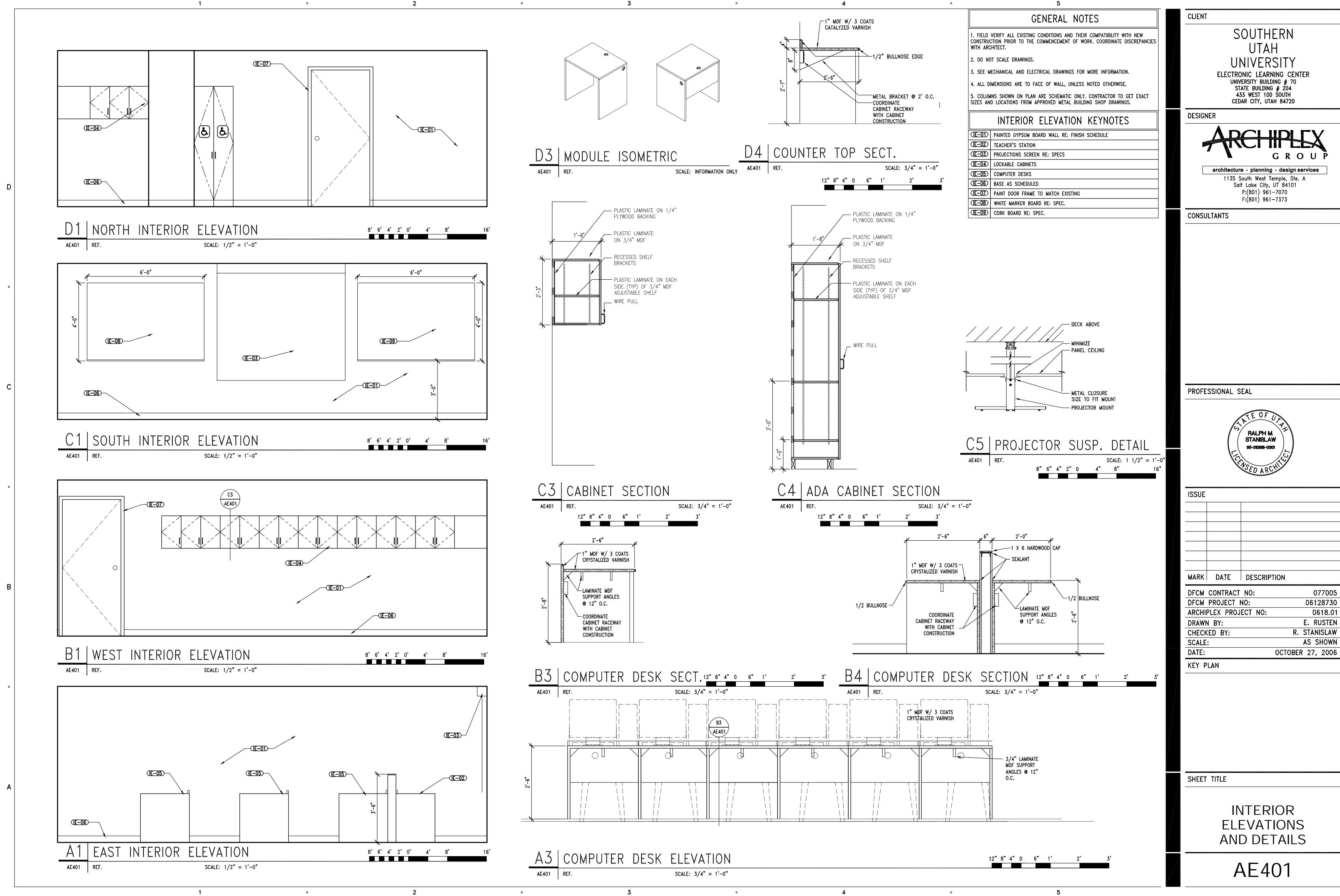
KEY PLAN

SHEET TITLE

5

ALTERNATE #1 DETAILS





077005 06128730 0618.01 E. RUSTEN R. STANISLAW

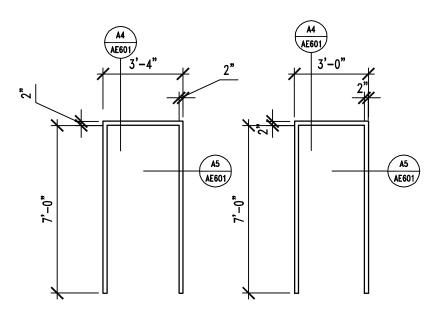
												WALLS			D	OOR/ FRAMES	
RM #		ROOM	NAME	F	LOOR		BASE	:	NOI	RTH	SOUT	H EAST	WE	ST			NOTES
210	RECEPTIO	N ARE	4		1	1			1		1	1	1			1, 2	
211	GRADUAT	E STUD	ENT WORK	RM.	1		1		1		1	1	1			1, 2	
212	STORAGE	CLOSE	T		1		1		1		11	1	1			1, 2	
ROC	M FIN	ISH	LEGEND														
FL	OOR					BASE						WALLS				DOOI	R & FRAMES
1. CAR	PET TILE -	SHAW "I	BE JEWELED"	RE: SPEC.	1.	CARPE	T COVI	E BASE	- COL	OR TO	MATCH	1. GYPSUM BOA ARCHITECT	.RD — PAINTED	COLO	R BY	1. DOOR - 0	CLEAR FINISH
																2. DOOR FRA	AMES PAINTED TO MATCH EXISTIN
					I					DO	OR SCH	IEDULE					
			DOO	RS				1	FRAME	S		DE	ETAILS				REMARKS
DOOR NUMBER	ROOM NUMBER	TYPE	МІОТН	HEIGHT	MATERIAL	FINISH	GLASS	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD	LABEL (MINUTES)	HARDWARE SET		
0210A	210	2	3'-0"	7'-0"	WD	STAIN	_	Α	НМ	PT	A4-AE601	A5-AE601	_	 	1		
)210B	210	2	3'-0"	7'-0"	WD	STAIN	_	Α	НМ	PT	A4-AE602		_	-	1		
)211A	211	2	3'-0"	7'-0"		STAIN		Α	НМ		A4-AE601	A5-AE601	_		1		
0212A	212	1 1	2'-8"	7'-0"		STAIN	_	B	HM	PT	A4-AE602		- A A A E 1 O 7	-	1	EVICTING DOGS	D /ALTEDNIATE #4\
0522A 0522B	522 522	FV FV	3'-0" 3'-0"	7'-0" 7'-0"	FV FV	_ _	_	FV FV	FV FV	_	B4-AE103 B4-AE103		A4-AE103 A4-AE103		2		R (ALTERNATE #1) R (ALTERNATE #1)
	ARE SET 1	<u> </u>	<u> </u>	_, <u> </u>	1	RE SET 2		. •	ı • •		IDT ALIUS	DT ALIUS	IAT ALIUS	<u> </u>		LAISTING DOOR	(AEIEMAIE #1)
Ea. Hing Ea. Rim Ea. Clos	e TA2714 Exit 8813	ETL JO (Unive	4.5 26D McKii 32D Von ersal Mt) LCN 32D Rock	Duprin Th 4041 Se		Door B			434_RL 270_ :-55_	PEMC	0						

ABBREVIATIONS WD WOOD

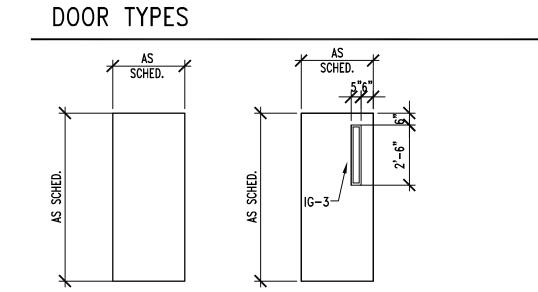
HM HOLLOW METAL FV FIELD VERIFY

DOOR FRAME TYPES

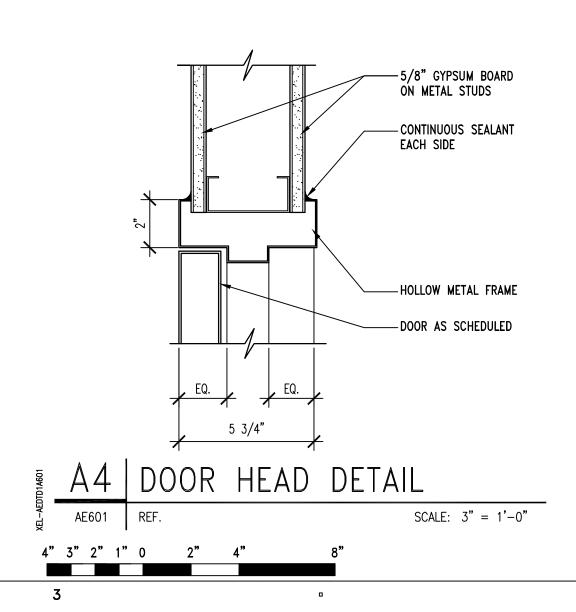
TYPE 1

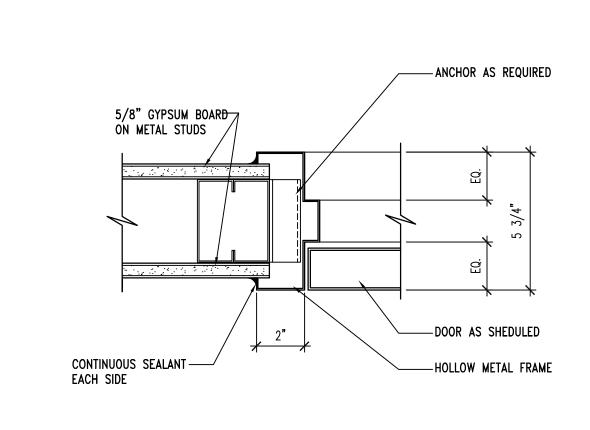


TYPE A TYPE B



TYPE 2





A5 DOOR JAMB DETAIL

AE601 REF. SCALE: 3" = 1'-0"

CLIEN

GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES

WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

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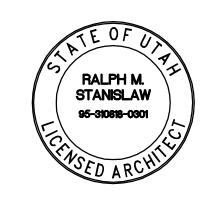


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ISSUE			
MARK	DATE	DESCRIPTION	
DECM	CONTRACT	NO.	077005

DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
ARCHIPLEX PROJECT NO:	0618.01
DRAWN BY:	E. RUSTEN
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	OCTOBER 27, 2006
KEY PLAN	

SHEET TITLE

DOOR AND FINISH SCHEDULE AND DETAILS

GENERAL NOTES:

G-1 MECHANICAL INFORMATION IS LIMITED TO THE MECHANICAL DOCUMENTS.

A - EACH DRAWING SHEET FROM ALL DISCIPLINES HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS
INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES,
AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

- G-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ENGINEER SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.
- G-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.
- G-4 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.
- G-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.
- G-6 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.
- G-7 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.
- G-8 PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS.
- G-9 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.
- G-10 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- G-11 C.F.M. LISTED IS ACTUAL AIR.
- G-12 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.
- G-13

 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE DOCUMENTS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE DOCUMENTS. ALL REQUESTED EXCEPTIONS TO THE DOCUMENTS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET DOCUMENTS, CAPACITIES, OR DESIGN INTENT.
- G-14 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2003 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION
O I IVIDUL	ADK.	DESCRIPTION	S I IVIDUL	ADK.	DESCRIPTION
누		EXISTING AIR DUCT TO BE REMOVED			UNION
├		EXISTING AIR DUCT TO REMAIN			THREADED OR SWEAT VALVE CONNECTION
<u>₩</u>		NEW AIR DUCT	<u> </u> Г		BUTTERFLY VALVE
7 5		RECT. TO RECT. AIR DUCT TAKE-OFF			GATE VALVE
7 =		RECT. TO RND. AIR DUCT TAKE-OFF		PRV	PRESSURE REDUCING VALVE
고 라		RND. TO RND. AIR DUCT TAKE-OFF	—ф—	BV	BALL VALVE
₩		FLEXIBLE AIR DUCT	_ > _		DIRECTION OF FLOW
⋿⊒		LINED DUCT	_		PITCH DOWN
		VANED ELBOW	0		ELBOW UP
		RADIUS ELBOW	C		ELBOW DOWN
M 1		CONCENTRIC DUCT TRANSITION	<u> </u>		TEE UP
→ • □□		ECCENTRIC DUCT TRANSITION			TEE DOWN
		FLEXIBLE DUCT CONNECTION			EXISTING PIPING TO BE REMOVED
₽		VOLUME DAMPER			EXISTING PIPING TO REMAIN
Ż		SUPPLY AIR DIFFUSER			NEW PIPING
Q		RETURN AIR, FRESH AIR, AND TRANSFER AIR			PIPE CAP OR PLUG
ত্র		CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE	—CD—		CONDENSATE DRAIN
		RETURN OR OUTSIDE AIR DUCT UP	—-G —		NATURAL GAS PIPING
		SUPPLY DUCT UP	— DR —		EQUIPMENT DRAIN
		EXHAUST AIR INTAKE UP	À		REVISION DESIGNATOR AND NUMBER
		RETURN OR OUTSIDE AIR DUCT DOWN	<u>(1)</u>		KEY NOTE DESIGNATOR AND NUMBER
		SUPPLY DUCT DOWN	•	POC	POINT OF CONNECTION
- 9 {II		ROUND DUCT UP	$\overline{\bullet}$	POR	POINT OF REMOVAL
		ROUND DUCT DOWN	AFF		ABOVE FINISHED FLOOR
		FLEXIBLE DUCT CONNECTION	AP		ACCESS PANEL
\supset	AP	ACCESS PANEL	Ģ EL.		CENTER LINE ELEVATION
		EXISTING EQUIPMENT TO BE REMOVED	INV. ELEV.		INVERT ELEVATION
		EXISTING EQUIPMENT TO REMAIN	GC		GENERAL CONTRACTOR
		NEW EQUIPMENT	МС		MECHANICAL CONTRACTOR
F>	FD	FIRE DAMPER	CC		CONTROL CONTRACTOR
\$	SD	SMOKE DAMPER	EC		ELECTRICAL CONTRACTOR
T	T'STAT	WALL MOUNTED THERMOSTAT	NIC		NOT IN CONTRACT
SA		SUPPLY AIR	NTS		NOT TO SCALE
RA		RETURN AIR			
EA		EXHAUST AIR	A ME-501		SECTION LETTER DESIGNATION
OA		OUTSIDE AIR	WIE-301)		- SECTION DRAWN ON THIS SHEET
MA		MIXED AIR	(A2)		- DETAIL NUMBER DESIGNATION
FA		FRESH AIR			– CORRESPONDING WITH GRID LOCATIO – MECHANICAL EQUIPMENT
RF		RELIEF AIR	AH 1		DESIGNATION - EQUIPMENT ITEM DESIGNATION
			- CFM		REGISTER, GRILLE OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW
			-		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRED

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PROFESSIONAL MECHANICAL ENGINEERING

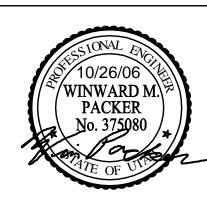
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SALT LAKE CITY, UTAH 84106
(801)466-4021, FAX 466-8536

EMAIL: excellence@whw-engineering.com

PROFESSIONAL SEAL

ISSUE



MARK DATE	DESCRIP	TION
DFCM CONTRA	CT NO:	077005
DFCM PROJEC	T NO:	06128730
ARCHIPLEX PR	ROJECT NO:	0618.01
DRAWN BY:		PC
CHECKED BY:		WP
SCALE:		
DATE:		OCTOBER 26, 2006
KEY PLAN		

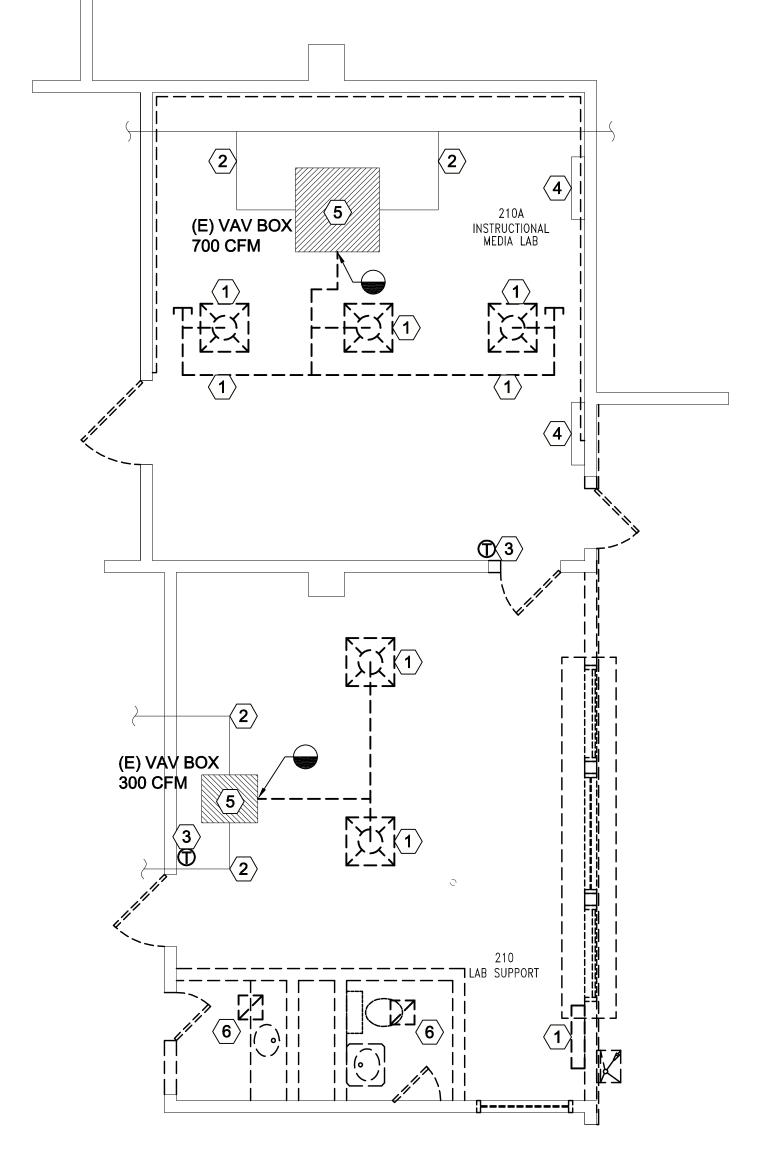
SHEET TITLE

MECHANICAL GENERAL NOTES AND LEGEND

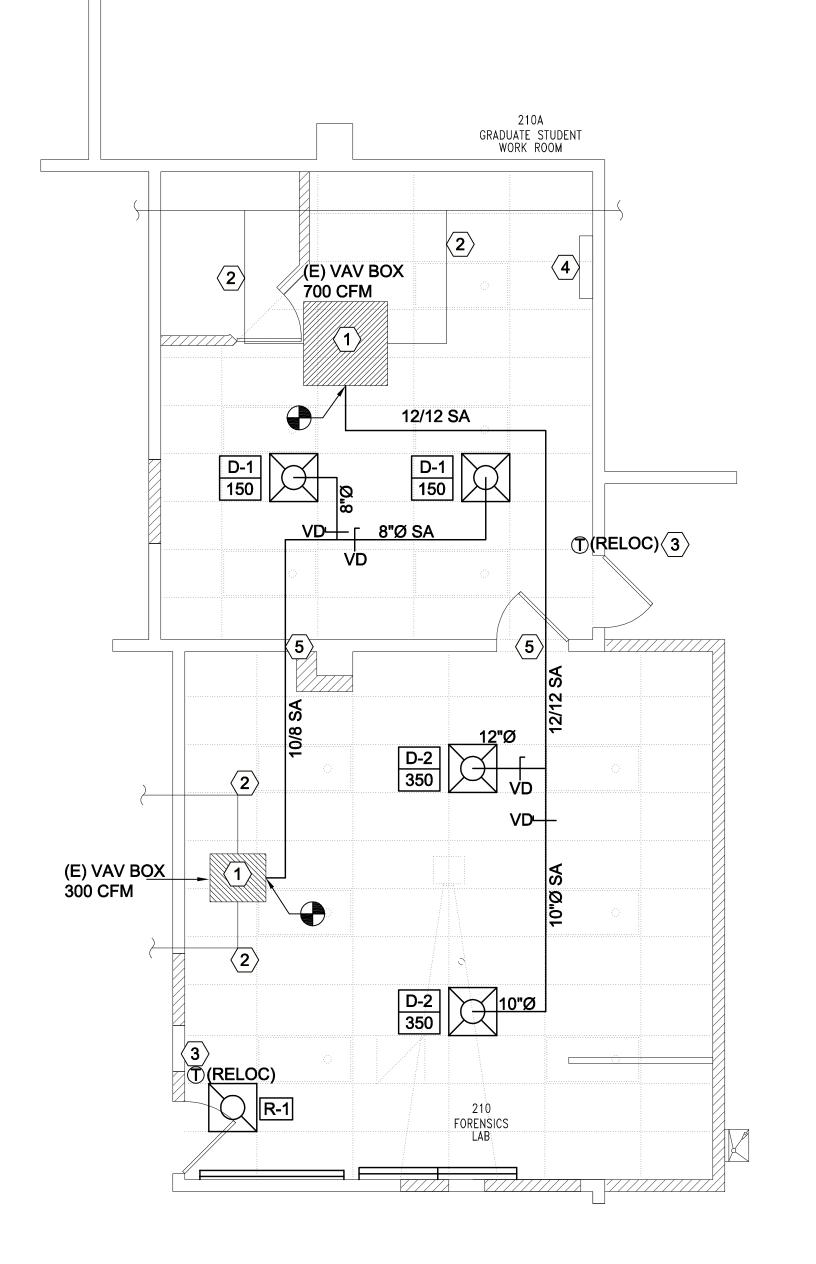
M001

SHEET NOTES FOR DEMO PLAN:

- 1 LOW PRESSURE DUCTWORK AND GRILLES TO BE REMOVED AS SHOWN.
- (2) EXISTING MEDIUM PRESSURE **DUCTWORK TO REMAIN**
- (3) RELOCATE EXISTING T-STAT AS SHOWN ON SHEET ME101.
- 4 EXISTING RETURN GRILLE TO REMAIN
- EXISTING CONSTANT VOLUME TERMINAL BOX TO REMAIN.
- (6) REMOVE EXISTING GRILLES.



MECHANICAL DEMOLITION FLOOR PLAN



SHEET NOTES FOR NEW PLAN:

- 1 EXISTING CONSTANT VOLUME TERMINAL BOX TO REMAIN.
- 2 EXISTING HIGH PRESSURE DUCT

- FIELD VERIFY EXACT PATH FOR NEW

5 FIELD VL....
DUCTWORK.

GENERAL NOTE:

- PLANS HAVE BEEN PREPARED BASED ON AS-BUILT DRAWINGS. THIS CONTRACTOR SHALL FIELD VERIFY ALL **EXISTING CONDITIONING EQUIPMENT** LOCATIONS, ETC. PRIOR TO PERFORMING WORK. ANY DISCREPANCIES, MODIFICATIONS, ETC. SHALL BE BROUGHT TO THE **ENGINEERS ATTENTION PRIOR TO** MAKING CHANGES.
- 2 THIS PLUMBING PORTION IS A DESIGN BUILD PROJECT. DESIGN BUILD PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION, OPERATION, FUNCTION, ETC. WHW ENGINEERING IS RESPONSIBLE ONLY FOR ITEMS **EXPLICITLY CALLED OUT IN THEIR** DRAWINGS, AND IS NOT LIABLE FOR ANY OTHER IMPLICIT REQUIREMENTS
- 3 MAINTAIN EXISTING FIRE SPRINKLER SYSTEM DURING DEMOLITION AND NEW CONSTRUCTION.
- 4 ALL NEW RECTANGULAR DUCTWORK TO HAVE 1" DUCT LINER.

- SERVING VAV BOX TO REMAIN.
- (3) EXISTING THERMOSTAT TO BE RELOCATED TO LOCATION SHOWN.
- 4 EXISTING LOW RETURN TO REMAIN.

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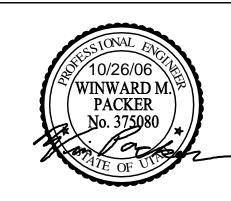
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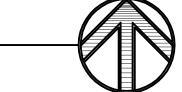
MARK	DATE	DESCRIPTION	
DFCM	CONTRACT	077005	
DFCM	PROJECT I	06128730	
ARCHI	PLEX PROJ	0618.01	
DD V W/V	J DV.		PC

CHECKED BY: WP SCALE: DATE: OCTOBER 26, 2006 KEY PLAN

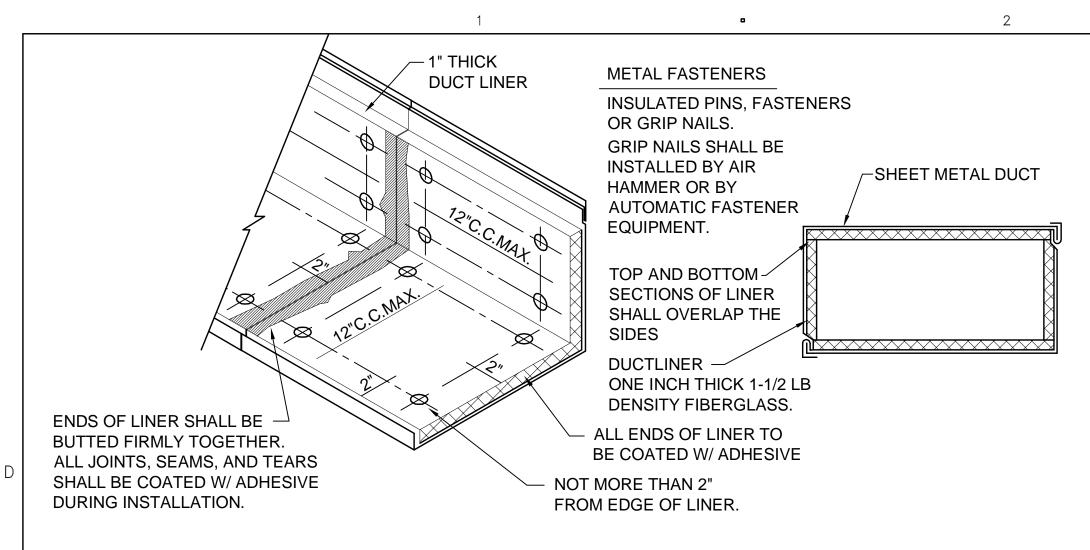
SHEET TITLE

MECHANICAL FLOOR PLAN **NEW AND DEMOLITION**

ME101



MECHANICAL NEW FLOOR PLAN



— #10 x 3/4" SHEET METAL SCREWS 3/4" x 1/4" CLOSED CELL NEOPRENE GASKET AROUND FLANGE SIZE CUT OUT — ACCORDING DUCT TAKE-OFF AS MANUFACTURED TO MANUFACTURERS BY SHEET METAL CONNECTORS, INC. RECOMMENDATIONS MINNEAPOLIS, MINNESOTA 1-800-328-1966 MANUAL VOLUME DAMPER -W/ LOCKING QUADRANT ON ALL SUPPLY AIR DUCTS, AND WHERE SHOWN FOR RETURN AIR DUCTS. - INSULATION NOT SHOWN. SEE SPECIFICATIONS. **FASTEN RIGID DUCT TO** FITTING W/ #10 x 3/4" AIR BRANCH -SHEET METAL SCREWS. DUCT (TYPICAL) DO NOT INTERFERE W/ **VOLUME DAMPER**

RECTANGULAR-TO-ROUND

DUCT CONNECTION DETAIL

OPERATION.

SCALE: NONE

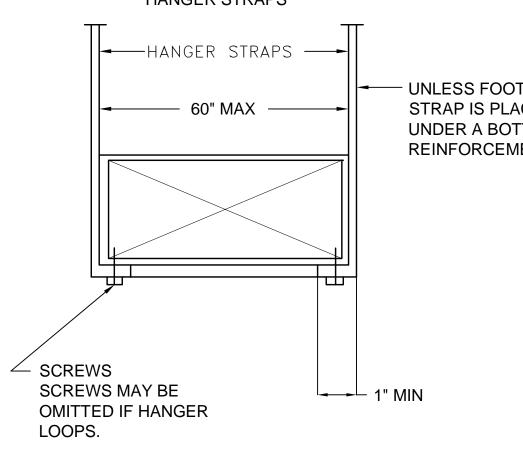
LOAD RATED HANGER **FASTENERS** 10" DIA. BAND OF SAME SIZE 24" DIA. AS HANGER STRAP 36" DIA. MAX.

DUCT SUPPORTS SCALE: NONE

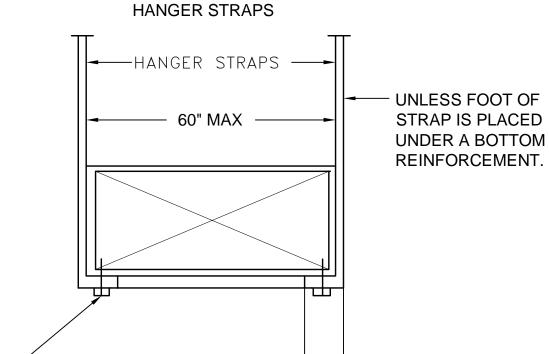
DUCT LINER DETAIL SCALE: NONE

L		SSURE RE JCTION S			
DUCT		M 2" W.G. POSITIVE	MAXIMUM 2" W.G. STATIC NEGATIVE		
DIAMETER IN INCHES	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE	_	LONGITUDINAL SEAM GAUGE	
3 thru 8	28	28	28	24	
9 thru 14	28	26	26	24	
15 thru 26	26	24	24	22	
27 thru 36	24	22	22	20	
37 thru 50	22	20	20	18	

LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL SCALE: NONE



DUCT SUPPORTS



REGISTER, LOUVER & GRILLE SCHEDULE SCHEDULE CEILING NOMINAL **THROAT** SERVICE MAX CFM TYPE COMMENTS SYMBOL SIZE TYPE NOTES R-1 1,2,3 CEILING RETURN 20/20 850 N/A LAY-IN

REGISTER. LOUVER AND DIFFUSER SCHEDULE NOTES:

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.

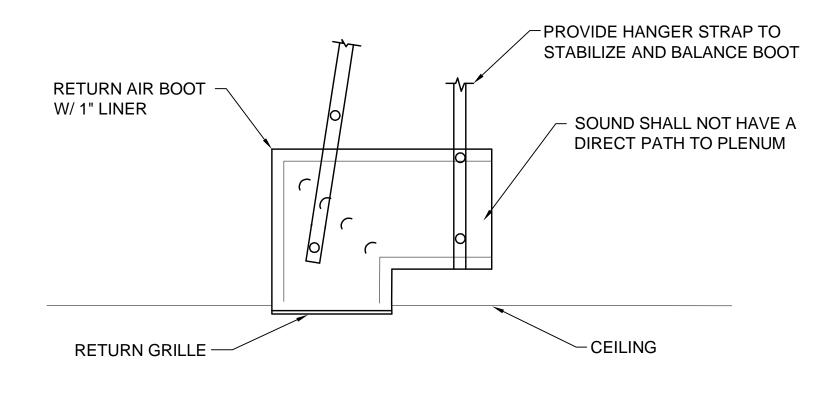
2. SHALL BE PRICE 535 OR EQUAL BY TITUS, AND METALAIRE, OR KRUEGER.

3. BAKED ENAMEL FINISH WITH COLOR AS DIRECTED BY ARCHITECT.

NOTE: TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS ——HIGH EFFICIENCY TYPE PRE-MANUFACTURED
NOTE: AREA OF A x B SHALL BE EQUAL TO 1.5 x AREA BRANCH DUCT
SEE DETAIL
AIR INSULATED FLEX DUCT. MAX LENGTH 6'-0".
LOCKING QUADRANT HANDLE OR REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE. RIGID ROUND
DUCT OR DIFFUSER COLLAR NYLON CLAMP OVER INSULATION NYLON CLAMP OVER FLEX DUCT SEE DETAIL
FLEX DUCT CEILING DIFFUSER
DETAII
DETAIL SCALE: NONE SQUARE-TO-ROUND TAKE-OFF DETAIL SCALE: NONE

DIFFUSER SCHEDULE								
SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 CFM	CEILING	200	9X9	8"Ø	LAY-IN	4WAY		1,2,3,4
D-2 CFM	CEILING	380	12X12	10"Ø	LAY-IN	4WAY	4 N	1,2,3,4

- 1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
- 2. MAXIMUM NC 25 AT CFM LISTED.
- 3. TRANSITION AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
- 4. PRICE SMD OR EQUAL BY TITUS, METALAIRE, OR KRUEGER.



(CE)	RETURN AIR BOOT DETAIL
	SCALE: NONE

ME601

SHEET TITLE

CLIENT

DESIGNER

CONSULTANTS

PROFESSIONAL SEAL

MARK DATE DESCRIPTION

DFCM CONTRACT NO:

DFCM PROJECT NO:

DRAWN BY:

KEY PLAN

SCALE:

DATE:

CHECKED BY:

ARCHIPLEX PROJECT NO:

077005

0618.01

РC

WP

06128730

OCTOBER 26, 2006

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MECHANICAL SCHEDULES AND DETAILS

	FIXTURE SCHEDULE				
TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS	
A	2X4 RECESSED ZERO PLENUM TROFFER WITH METAL PERFORATED DIFFUSER AND STEP DIMMING	COLUMBIA: ZPT24-228G-PRF-S-EB5095S-UNV	UNV	(2) FP28/835	
A1	2X2 RECESSED ZERO PLENUM TROFFER WITH METAL PERFORATED DIFFUSER	COLUMBIA: ZPT22-214G-PRF-S-EB5095S-UNV	UNV	(2) FP14/835	

GENERAL NOTES

- 1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING
- 2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- 3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
- 4. SEE SPECIFICATIONS FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- 5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- 6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- 7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- 8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- 9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY
- 10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- 11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.

DEMOLITION NOTES

- 1. COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
- 2. RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- 3. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- 4. EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO
- 6. REMOVE EXISTING LIGHT FIXTURES, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.

DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR 8. PROPER COMPLETION OF THE WORK.

ELECTRICAL SYMBOL SCHEDULE

SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.

HEIGHT MEASURED TO TOP LINE OF THE BOX FROM THE FINISH FLOOR.

REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.

SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.

NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.

HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.

PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.

DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.

COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.

10. SUBSCRIPT DENOTES NEMA CONFIGURATION. 11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
#	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
#	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
-	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
0	CEILING LIGHT FIXTURE	CEILING	1.
Ю	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
0	FLUORESCENT LIGHT FIXTURE	AS NOTED	1
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
\otimes	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.
Ю	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.
\$	SINGLE POLE SWITCH	+4'-0"	2.
\$ a	SINGLE POLE SWITCH	+4'-0"	4. 2.
\$3	THREE-WAY SWITCH	+4'-0"	2.
\$4	FOUR-WAY SWITCH	+4'-0"	2.
\Rightarrow	DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
\Rightarrow_A	DUPLEX RECEPTACLE		9.
\Rightarrow_{W}	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM
-	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
#	FOURPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
•	FLOOR OUTLET WITH 20A DEVICE	FLOOR	
	MULTIPLE SERVICE FLOOR BOX	FLOOR	
	PLUGMOLD	+46" OR AS NOTED	
	DATA OUTLET	+16" OR AS NOTED	9. 11.
\triangleright	TELEPHONE OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9. 11.
\bigcirc	TELEPHONE OUTLET	FLOOR	
J	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
/ /	MOTOR OUTLET	TO SUIT EQUIP.	
	PANEL BOARD	TOP AT +6'-0"	
	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
⊚s	SMOKE DETECTOR	CEILING	
Он	HEAT DETECTOR	CEILING	
	CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED	
	ARCHITECTURAL ROOM NUMBER		
842			
842 A	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		

INDEX	OF ELECTRICAL DRAWINGS		
E-001	SYMBOLS, NOTES AND SCHEDULES		
E-002	ELECTRICAL SPECIFICATIONS		
E-101	DEMOLITION PLAN		
E-201	LIGHTING PLAN		
E-301	POWER PLAN		
E-401	ELECTRICAL DIAGRAMS		

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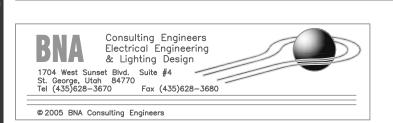
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DESIGNER

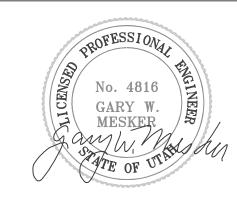


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CONSULTANTS



PROFESSIONAL SEAL



ISSUE			
1	11-28-06	REVIEW COMMENTS	
MARK	DATE	DESCRIPTION	

DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
BNA PROJECT NO:	06264SG.01
DRAWN BY:	J. TRUJILLO
CHECKED BY:	L. REMBER
SCALE:	AS NOTED
DATE:	OCTOBER 27, 2006
KEY PLAN	

SHEET TITLE

SYMBOLES, NOTES AND SCHEDULES

ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

A. REFERENCE

- 1. THE GENERAL CONDITIONS AND OTHER CONTRACT DRAWINGS AS SET FORTH IN THE FOREGOING PAGES ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR WORK UNDER THIS TITLE. INSOFAR AS THEY APPLY HERETO.
- 2. ALL SPECIFICATIONS UNDER THIS DIVISION TITLE ARE DIRECTED TO AND ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. UNLESS OTHER TRADES OR PERSONS ARE SPECIFICALLY MENTIONED, "ELECTRICAL CONTRACTOR" IS INFERRED

B. CONTRACT DRAWINGS

- 1. THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS IF CALLED FOR BY BOTH.
- 2. CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF EQUIPMENT, CONDUIT AND WIRING AND MAKE MINOR ADJUSTMENTS IN LOCATION TO SECURE COORDINATION.
- WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS.
- OTHER THAN MINOR ADJUSTMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.

C. JOB-SITE COPY OF DOCUMENTS

1. MAINTAIN AT THE SITE, ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA APPROVED SHOP DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE. THE DRAWINGS MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE FOR THE OWNER UPON COMPLETION OF THE WORK. AN ADDITIONAL SET OF DRAWINGS WILL BE FURNISHED BY THE OWNER'S REPRESENTATIVE FOR THIS PURPOSE UPON REQUEST.

MANUFACTURER'S DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW, (6) COPIES OF MANUFACTURER'S DRAWINGS AND WIRING DIAGRAMS. THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL SYSTEM DESIGNED BY THE ENGINEER. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL: REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR: APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS CONTRACTOR ADVISES ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY ENGINEER IN WRITING. THE ITEMS. TYPES OF SUBMITTALS AND RELATED MATERIAL (IF ANY) CALLED FOR ARE INDICATED BELOW:

LIGHTING AND POWER PANELS LIGHTING FIXTURES LIGHTING CONTROL EQUIPMENT EMERGENCY LIGHTING EQUIPMENT TYPE SUBMITTALS REQUIRED SHOP DRAWINGS CATALOG CUTS CATALOG CUTS CATALOG CUTS

E. GUARANTEES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE OWNER'S REPRESENTATIVE. PRODUCT GUARANTEES GREATER THAN ONE (1) YEAR SHALL BE PASSED ALONG TO THE OWNER FOR FULL BENEFIT OF THE MANUFACTURER'S WARRANTY.

WORK INCLUDED

INSTALLATION, MATERIALS, AND WORKMANSHIP

- FURNISH AND INSTALL ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER SIMILAR APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED SYSTEM CONSISTENT WITH THE ARCHITECTURAL TREATMENT OF THE BUILDING.
- THE ELECTRICAL CONTRACTOR. INSOFAR AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY DEBRIS AND EXCESS MATERIALS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DUMPSTER & REFUSE DISPOSAL AS REQUIRED FOR ELECTRICAL WORK.
- ALL MATERIALS SHALL BE NEW AND UNDETERIORATED AND OF A QUALITY NOT LESS THAN THE MINIMUM SPECIFIED.

B. COORDINATION OF PLANS AND SPECIFICATIONS

CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THERE IS ANY QUESTIONS REGARDING THE MEANING OR INTENT OF EITHER PLANS OR SPECIFICATIONS, OR UPON NOTICING ANY DISCREPANCIES OR OMISSIONS IN EITHER PLANS OR SPECIFICATIONS.

C. CUTTING AND PATCHING

PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH AND SHALL BE DONE

BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.

REPAIR OF DAMAGES, BY THE ELECTRICAL CONTRACTOR, TO NEWLY PATCHED AND REFINISHED AREAS SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE, TO MATCH EXISTING CONDITION.

3. WHERE REQUIRED TO MAINTAIN FIRE RATING, OPENINGS SHALL BE SEALED UTILIZING 3M BRAND FIRE BARRIER PENETRATION SEALING SYSTEMS. FIRE BARRIER OR FIRE STOP SYSTEMS FROM CROUSE-HINDS, THOMAS & BETTS OR DOW CORNING MAY BE USED AT CONTRACTOR'S OPTION. THIS INCLUDES HOLES LEFT DUE TO REMOVAL OF EXISTING CONDUITS, BUS DUCT, ETC. OPENINGS SHALL BE TEMPORARILY FIRE STOPPED UNTIL PERMANENT FIRE STOPPING IS DONE.

D. CLEANING AND PAINTING

- 1. ALL ELECTRICAL EQUIPMENT SHALL BE KEPT DRY AND CLEAN DURING THE CONSTRUCTION PERIOD. INTERIOR OF ALL ENCLOSURES SHALL BE CLEANED OF DIRT AND DEBRIS BEFORE INSTALLING TRIM OR COVERS.
- ALL FINISHED SURFACES OF EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED OF DIRT AND ALL SCRATCHED OR DAMAGED SURFACES SHALL BE TOUCHED UP WITH MATCHING MATERIALS BEFORE FINAL ACCEPTANCE OF THE WORK.
- WHEN ALL WORK IS COMPLETED AND ALL WORK HAS BEEN SATISFACTORILY TESTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, ALL CONDUIT AND OTHER EXPOSED SURFACES SHALL BE THOROUGHLY CLEANED.

CODES AND FEES

- 1. ALL WORK PERFORMED UNDER THIS SPECIFICATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS PREPARED AND PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION AND ANY APPLICABLE STATE OR
- B. FEES: 1. OBTAIN AND PAY FOR ANY AND ALL PERMITS REQUIRED BY ALL LAWS AND REGULATIONS AND PUBLIC AUTHORITY HAVING SUCH JURISDICTION.

TESTS AND INSPECTIONS

- A. OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES, RULES, REGULATIONS OR PUBLIC AUTHORITY HAVING JURISDICTION AND OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE OWNER'S REPRESENTATIVE. PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREIN. OBTAIN OCCUPANCY PERMIT AS REQUIRED BY OWNER. FINAL PAYMENT SHALL NOT BE MADE UNTIL OCCUPANCY PERMIT IS OBTAINED.
- B. WORK SHALL BE UNACCEPTABLE WHEN FOUND TO BE DEFECTIVE OR CONTRARY TO THE PLANS SPECIFICATIONS, CODES SPECIFIED OR ACCEPTED STANDARDS OF GOOD WORKMANSHIP.
- C. THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK FOUND UNACCEPTABLE BY THE BY THE OWNER'S REPRESENTATIVE WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED OR COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS OF CORRECTING SUCH UNACCEPTABLE WORK, INCLUDING COMPENSATION FOR THE OWNERS REPRESENTATIVE ADDITIONAL SERVICES MADE NECESSARY THEREBY.

- A. FURNISH AND INSTALL ALL CONDUITS, BOXES, FITTINGS, ETC., FOR A COMPLETE RACEWAY
- B. ALL WIRING SHALL BE RUN IN EMT CONDUIT OR MC WITH GROUND CONDUCTOR UNLESS OTHERWISE NOTED
- C. ALL CONDUIT SIZES STATED HEREIN OR MARKED ON THE DRAWINGS ARE MINIMUM SIZE AND SHALL BE NO LESS THAN 3/4" UNLESS OTHERWISE NOTED.
- D. ALL CONDUIT SHALL BE SUBSTANTIALLY SUPPORTED BY PIPE STRAPS OR SUITABLE CLAMPS OR HANGERS ATTACHED TO THE ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE RIGID INSTALLATION; IN NO CASE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER PIPE FOR REPAIRS.

WIRE AND CABLE

- A. ALL CONDUCTORS SHALL BE COPPER AND OF THE AWG SIZE AND TYPE SHOWN ON THE DRAWINGS. WHERE NO SIZE OR TYPE IS SHOWN, CONDUCTORS SHALL NOT BE LESS THAN #12 TYPE XHHW, THHN, OR THWN. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED COPPER AND HAVE 600 VOLT INSULATION; BE UL LABELED AND OF AMERICAN MANUFACTURER.
- B. ALL CONNECTIONS ARE TO BE MADE USING PRESSURE TYPE TERMINALS.
- C. THE FOLLOWING COLOR CODE SHALL BE USED:

PHASE A PHASE B PHASE C NEUTRAL	120/208 VO BLACK RED BLUE WHITE
	2232

- D. CONDUCTORS NO. 10 AWG OR SMALLER SHALL HAVE INSULATION COLORED AS NOTED ABOVE.
- E. CONDUCTORS NO. 8 AWG OR LARGER SHALL HAVE INSULATION COLORED AS NOTED ABOVE OR COLORED TAPE, MINIMUM SIZE 1/2", WRAPPED TWICE AROUND AT THE FOLLOWING POINTS: AT FACH TERMINAL
- AT EACH CONDUIT ENTRANCE AT INTERVALS NOT MORE THAN 12 INCHES APART
- IN ALL BOXES, PANEL TUBS, SWITCHBOARDS, ETC. F. ALL BRANCH CIRCUITS SHALL BE MARKED IN THE PANELBOARD GUTTERS. MARKERS SHALL
- INDICATE CORRESPONDING BRANCH-CIRCUIT NUMBERS.

G. EACH BRANCH CIRCUIT REQUIRING A NEUTRAL SHALL BE FURNISHED WITH A SEPARATE INDIVIDUAL NEUTRAL CONDUCTOR.

BOXES AND PLATES

- A. FURNISH AND INSTALL ALL OUTLET, JUNCTION, AND PULLBOXES AS INDICATED ON THE DRAWINGS AND AS NECESSARY TO INSTALL THE REQUIRED CONDUIT AND WIRING IN A NEAT AND WORKMANLIKE MANNER.
- B. PULLBOXES AND JUNCTION BOXES SHALL BE GALVANIZED AND OF THE CORRECT SIZE AND GAUGE, SIZED IN ACCORDANCE WITH CODE REQUIREMENTS AND SHALL BE U.L. LABELED.
- FLUSH OUTLET, JUNCTION AND PULLBOXES SHALL BE PRESSED STEEL GALVANIZED OR SHERARDIZED AND SHALL BE A MINIMUM OF 4" SQUARE OR OCTAGONAL SIMILAR TO APPLETON #40. STEEL BOXES CAST IN CONCRETE SHALL BE DESIGNED FOR CONCRETE INSTALLATION.
- FLUSH WALL BOXES IN TILE, MARBLE, BRICK OR OTHER FINISHED MASONRY WALLS SHALL BE STEEL CITY GW-135-C SERIES OR RACO 695 SERIES.
- E. BOXES AT EXTERIOR AREAS TO BE WATERTIGHT AND DUST-TIGHT WITH GASKETED COVERS.
- F. ALL BOXES FOR EXPOSED WORK IN FINISHED SPACES SHALL BE "FS" TYPE WITH THREADED HUBS WITH RIGID CONDUIT RISER (DEEP WIREMOLD BOXES). G. SWITCH PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NOS. S-IN, (P-1), S-2N
- P-2), S-3N (P-3) ETC., AS REQUIRED, AND SHALL BE MADE OF SATIN FINISH #302
- H. DUPLEX RECEPTACLE PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NO. S-8N (P-8) SATIN FINISH #302 STAINLESS STEEL. I. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE

WIRING DEVICES

- A. WIRING DEVICES SHALL BE SIMILAR TO THOSE LISTED BELOW AND OF SPECIFIED AMPERAGE. OTHER SPECIAL PURPOSE DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS.
- B. DUPLEX GROUNDING TYPE RECEPTACLE 20 AMP, 125 VOLT -NEMA 5-20R

HUBBELL - 5352

RIGIDLY SUPPORTED.

ARROW HART - 5352 C. SINGLE POLE SWITCHES - 20 AMP, 120 VOLT

HUBBELL - 1221 ARROW HART - 1221

D. 3-WAY SWITCHES - 20 AMP, 120 VOLT

HUBBELL - 1223 ARROW HART - 1273

E. WEATHERPROOF RECEPTACLES - 20 AMP, 125 VOLT -

HUBBELL - 5352 WITH 5205 COVER INTERMATIC GUARDIAN I SERIES, NEMA 3R COVER

ARROW HART - 5352 WITH 4500 COVER F. G.F.I. RECEPTACLE - 20 AMP, 125 VOLT - NEMA 5-20R

SIMILAR TYPE LABELS WILL BE ALLOWED.

- HUBBELL GF 5262 WITH MATCHING NYLON COVER PLATE OR WP-26 W.P. COVER
- G. GROUND ALL RECEPTACLES IN ACCORDANCE WITH ARTICLE 250-146 OF NEC AND AS INDICATED IN THE GROUNDING SECTION OF THIS SPECIFICATION.

<u>IDENTIFICATION</u>

- A. EACH PIECE OF SERVICE EQUIPMENT AND INDIVIDUAL SWITCHES, ALL DISCONNECTS, STARTERS, ALL EXHAUST FAN MANUAL STARTING SWITCHES.
- B. IDENTIFICATION SHALL BE IN THE FORM OF LAMINATED PLASTIC NAMEPLATES, BLACK FACE, WITH THE LETTERS ENGRAVED INTO THE WHITE BACKGROUND, MINIMUM 1/4" HIGH. PLATES SHALL BE DRILLED ON EACH END FOR SHEET METAL SCREW ATTACHMENT. NO "DYMO" OR
- C. PANELBOARD DIRECTORY: A TYPED CIRCUIT DIRECTORY SHALL BE PROVIDED INDICATING LOCAL AREA SERVED AND LOCATION FOR EACH BRANCH CIRCUIT.

<u>GROUNDING</u>

- A. ALL FEEDERS AND BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250-122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS. ALL GROUND CONDUCTORS SHALL BE GREEN, OR AS SPECIFIED UNDER SECTION 16120, "WIRE
- B. ALL GROUND CLAMPS SHALL BE PENN-UNION "GPL" TYPE OR SIMILAR BY O.Z. OR BURNDY.
- C. CONDUIT FOR SOLITARY GROUND CONDUCTORS SHALL BE RIGID SCHEDULE 40PVC NON-METALLIC ELECTRICAL CONDUIT WITH U.L. LABEL. SOLITARY GROUND CONDUCTORS SHALL NOT BE PLACED THROUGH METALLIC SLEEVES OR CONDUITS AND SHALL NOT BE COMPLETELY ENCIRCLED BY METALLIC HANGERS OR SUPPORTS.
- D. THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC-250-24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250-30.
- E. AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT, WITH NORMAL WIRING CONNECTOR, TO: 1) THE GROUND PIGTAIL TO RECEPTACLE; 2) THE GROUND PIGTAIL TO BOX GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN. METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.
- F. CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.

INTERRUPTION OF SERVICE AND OWNER'S OPERATION

- A. THE ELECTRICAL CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT THESE ALTERATIONS AND ADDITIONS SHALL CAUSE A MINIMUM OF INTERFERENCE AND DISTURBANCE TO THE OWNER. ARRANGEMENTS SHALL BE MADE WITH THE OWNER AND ENGINEER BEFORE INTERRUPTING SERVICE IN ANY AREA. A WRITTEN DETAILED METHOD OF INTERRUPTION PROCEDURE INDICATING ELAPSED TIME REQUIRED AND TIME OF INTERRUPTION SHALL BE PREPARED BY THE ELECTRICAL CONTRACTOR AND SUBMITTED TO THE OWNER FOR APPROVAL.
- B. ALL INTERRUPTIONS OF SERVICE SHALL BE MADE WHEN THE LOAD IS AT A MINIMUM AND SHALL BE SCHEDULED AT THE OWNER'S CONVENIENCE. (SERVICE INTERRUPTIONS WILL BE SCHEDULED FOR OTHER THAN NORMAL DAYTIME WORKING HOURS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE NECESSARY COST FOR OVERTIME LABOR IN ALL BIDS.)
- C. AT NO TIME SHALL THE ELECTRICAL CONTRACTOR OR HIS EMPLOYEES NORMALLY WORKING ON THE PROJECT LEAVE THE FACILITY DURING A TIME WHEN ANY NORMALLY LIVE CIRCUITS OR FEEDERS ARE DISCONNECTED, WITHOUT PERMISSION OF THE ENGINEER.
- D. ALL MATERIALS, CONNECTIONS AND EQUIPMENT FOR TEMPORARY CONTROL OR POWER WIRING TO MAINTAIN CONTINUITY OF SERVICE DURING CONSTRUCTION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

POWER AND LIGHTING PANELS

- A. FURNISH AND INSTALL, AS SCHEDULED AND SHOWN ON THE DRAWINGS, POWER PANELS FOR OPERATION ON VOLTAGES INDICATED.
- B. THE PANELS SHALL BE SQUARE D, TYPE NQOD, NEHB OR I-LINE OR EQUAL, WITH BRANCH BREAKERS AS SCHEDULED ON THE DRAWINGS.
- C. ALL TERMINATIONS SHALL BE MARKED "75°C ONLY", "60/75°C" OR LISTED FOR USE OF 75°C INSULATED CONDUCTORS AT FULL 75°C AMPACITY.
- D. ALL BUS BARS SHALL BE SILVER OR TIN PLATED COPPER.

COMBINATION LOCK AND CATCH, AND ALL KEYED ALIKE.

- CABINETS SHALL BE OF COMMERCIAL GALVANIZED SHEET STEEL, CODE GAUGE AND SIZE, SURFACE OR FLUSH MOUNTED AS CALLED FOR IN THE DRAWINGS. FLUSH PANELS SHALL BE FINISHED WITH PRIME COAT ONLY. DOORS SHALL BE FITTED WITH CHROME PLATED
- F. NEUTRAL ASSEMBLY SHALL HAVE INDIVIDUAL ANTI-TURN SOLDERLESS TERMINALS, SIMILAR TO SQUARE D TYPE PK, FOR CONNECTION OF ULTIMATE NUMBER OF NEUTRAL WIRES. SHEET METAL TERMINAL STRIPS AND CONNECTIONS WILL BE REJECTED.
- G. PANEL SHALL HAVE A COPPER GROUND BAR SIMILAR TO NEUTRAL BAR IN NUMBER, SIZE, AND TYPE OF ANTI-TURN SOLDERLESS LUGS. THIS GROUND BAR SHALL BE FACTORY BONDED TO THE PANEL TUB IN THE GUTTER SPACE OPPOSITE THE MAINS AND THE NEUTRAL ASSEMBLY AND SHALL HAVE THE SCREWDRIVER SLOTS FACING THE FRONT OF THE PANEL.
- H. THE MAIN AND BRANCH BREAKERS SHALL BE TYPE QOB OR QOB-H RATED 10,000 A.I.C. MINIMUM, MOLDED CASE, TEMPERATURE COMPENSATED, QUICK-MAKE, QUICK-BREAK, WITH THERMAL-MAGNETIC TRIP AND PERMANENTLY BOLTED TO BUS BARS.
- I. PANELS SHALL BE MOUNTED WITH TOP OF PANEL AT 6'-0" ABOVE FLOOR.

- A. CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING FIXTURES AND LAMPS AS INDICATED IN FIXTURE SCHEDULE SHOWN ON DRAWINGS, AND SPECIFIED HEREIN.
- B. LENS THICKNESS FOR FLUORESCENT FIXTURES SHALL BE 0.125 INCHES, MINIMUM (NOT NOMINAL) AND HAVE A MINIMUM WEIGHT OF 8.0 OUNCES PER SQUARE FOOT.
- C. LAMP SOCKETS FOR BARE TUBE FLUORESCENT FIXTURES SHALL BE SPRING LOADED
- D. FLUSH FIXTURES MAY BE FURNISHED WITH PRE-WIRED FEATURE PROVIDED THEY ARE U.L. APPROVED FOR 75°C WIRING AND THE JUNCTION BOX CAPACITY IS SUFFICIENT FOR THE CIRCUIT WIRING REQUIREMENTS.
- E. CLEARANCES FOR RECESSED PORTIONS OF FIXTURES FROM COMBUSTIBLE MATERIAL AND THERMAL INSULATION, SHALL BE IN ACCORDANCE WITH NEC ARTICLE 410-66.
- F. ALL FLUORESCENT LAMP BALLAST SHALL BE ELECTRONIC WITH LESS THAN 20% HARMONIC DISTORTION. BALLAST SOUND LEVELS SHALL NOT EXCEED CLASS "A", AMBIENT NOISE LEVELS, HPF TYPE, WITH PARALLELING WIRING CONNECTION, BE CBM AND U.L. APPROVED, BALLAST MAY BE MANUFACTURED BY ADVANCE, TYPE MARK V: FITA INDUSTRIES TYPE E2P; OR MAGNETEK-TRIAD, B SERIES; OR MOTOROLA TYPE MOTRN.
- G. NEUTRAL ASSEMBLY SHALL HAVE INDIVIDUAL ANTI-TURN SOLDERLESS TERMINALS, SIMILAR TO SQUARE D TYPE PK, FOR CONNECTION OF ULTIMATE NUMBER OF NEUTRAL WIRES. SHEET METAL TERMINAL STRIPS AND CONNECTIONS WILL BE REJECTED.
- H. PANEL SHALL HAVE A COPPER GROUND BAR SIMILAR TO NEUTRAL BAR IN NUMBER, SIZE, AND TYPE OF ANTI-TURN SOLDERLESS LUGS. THIS GROUND BAR SHALL BE FACTORY BONDED TO THE PANEL TUB IN THE GUTTER SPACE OPPOSITE THE MAINS AND THE NEUTRAL ASSEMBLY AND SHALL HAVE THE SCREWDRIVER SLOTS FACING THE FRONT OF THE PANEL.

- I. ALL LAMP HOLDERS INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE FURNISHED COMPLETE WITH NEW LAMPS OF THE SIZE INDICATING ON THE FIXTURE SCHEDULE.
- J. FLUORESCENT LAMPS SHALL BE 32 WATT, T8 RAPID START LAMPS WITH A COLOR
- K. LAMP CURRENT CREST FACTOR SHALL NOT EXCEED 1.8 AND SHALL BE COMPATIBLE WITH
- L. ANY FIXTURES SCRATCHED, BENT, CRACKED OR IN ANY WAY DAMAGED BEFORE ACCEPTANCE BY OWNER SHALL BE REPLACED AT THIS CONTRACTOR'S EXPENSE.
- N. ALL LIGHTING FIXTURES ARE TO BE GROUNDED ON THE INTERIOR OF THE FIXTURE
- HOUSING, ON CLEAN BARE METAL (FREE OF PAINT), BY USE OF A PIGTAIL AND FASTENED BY A SCREW USED FOR NO OTHER PURPOSE O. WHEREVER LIGHTING SYSTEMS ARE SUPPORTED AND FASTENED TO A CEILING SUSPENSION

- A. GENERAL: EXCEPT AS OTHERWISE INDICATED, PROVIDE MOTOR STARTERS, DISCONNECT SWITCHES, WHICH COMPLY WITH MANUFACTURER'S STANDARD MATERIALS, DESIGN AND CONSTRUCTION
- B. GENERAL DUTY SWITCHES: PROVIDE GENERAL-DUTY TYPE, SHEET-STEEL ENCLOSED SWITCHES, FUSIBLE OR NON-FUSIBLE AS INDICATED OF TYPES, SIZES AN ELECTRICAL CHARACTERISTICS INDICATED; RATED 240 VOLTS, 60 HERTZ; INCORPORATING SPRING ASSISTED, QUICK-MAKE, QUICK-BREAK MECHANISMS. PROVIDE SINGLE PHASE OR THREE PHASE AND WITH SOLID NEUTRAL AS REQUIRED BY APPLICATION. EQUIP WITH OPERATING HANDLE WHICH IS CAPABLE OF BEING PADLOCKED IN 'OFF' POSITION. PROVIDE NEMA 1 OR NEMA 3R AS REQUIRED BY APPLICATION,
- D. AC FRACTIONAL HP MANUAL STARTERS (EQUAL TO SQUARE D CLASS 2510): PROVIDE MANUAL, SINGLE-PHASE, 1 AND 2 POLE, 300 VOLT AC MAX, FRACTIONAL HP MOTOR STARTERS, OF TYPES, RATINGS AND ELECTRICAL CHARACTERISTICS INDICATED; EQUIP WITH ONE PIECE THERMAL OVERLOAD RELAY WITH FIELD ADJUSTMENT CAPACITY OF PLUS OR MINUS 10 PERCENT OF NOMINAL OVERLOAD HEATER RATING; FOR PROTECTION OF AC MOTORS OF 1 HP AND LESS. (FOR MANUALLY SPECIFIED HEREIN). PROVIDE STARTER WITH QUICK-MAKE, QUICK-BREAK TRIP FREE TOGGLE MECHANISMS, GREEN PILOT LIGHTS, AND WITH LOCK-OFF TOGGLE OPERATED HANDLE. MOUNT SURFACE UNITS IN NEMA 1 ENCLOSURES, UNLESS NOTED OTHERWISE. PROVIDE NEMA 3R ENCLOSURE IN EXTERIOR OR DAMP LOCATION UNLESS NOTED OTHERWISE. PROVIDE FLUSH MOUNTED UNITS WITH COVERPLATE TO MATCH WIRING DEVICE COVERPLATES.
- E. AC LINE VOLTAGE MANUAL STARTERS (EQUAL TO SQUARE D CLASS 2510): PROVIDE LINE VOLTAGE MANUAL STARTERS, OF TYPES, RATINGS AND ELECTRICAL CHARACTERISTICS INDICATED; 2 OR 3 POLE, 600 VOLT AC MAX; EQUIP WITH PUSHBUTTON OPERATOR, LOW VOLTAGE PROTECTION FEATURE, AND GREEN PILOT LIGHT. PROVIDE STARTERS WITH TRIP FREE MECHANISM SUCH THAT CONTACTS WILL TRIP UNDER LOAD AND REMAIN OPEN UNTIL THERMAL ELEMENT HAS COOLED. AND UNIT IS RESET, MOUNT SURFACE UNITS IN NEMA 1 ENCLOSURE UNLESS NOTED OTHERWISE. PROVIDE NEMA 3R ENCLOSURE IN EXTERIOR OR DAMP LOCATION, UNLESS NOTED OTHERWISE. PROVIDE OVERLAPPING TRIM FOR FLUSH MOUNTED UNITS.
- F. AC COMBINATION NON-REVERSING MAGNETIC STARTERS (EQUAL TO SQUARE D CLASS 8538): PROVIDE LINE VOLTAGE COMBINATION STARTERS, OF TYPES, RATINGS, AND ELECTRICAL CHARACTERISTICS; 2 OR 3 POLE, 600 VOLT MAXIMUM WITH NON-REVERSING MAGNETIC STARTERS AS SPECIFIED HEREIN; IN COMMON CUBICLE OR ENCLOSURE WITH FUSIBLE DISCONNECT SWITCH. PROVIDE QUICK-MAKE, QUICK-BREAK, DISCONNECT FOR NEMA SIZES 1, 2, 3, AND 4; AND VISIBLE BLADE, AUTOMATIC CIRCUIT INTERRUPTERS WITH PUSH-TO-TRIP FEATURE AND SEPARATE FUSE CLIPS FOR LARGER NEMA SIZES. FUSE ALL STARTERS WITH DUAL-ELEMENT (TIME-DELAY) FUSES EQUAL TO BUSSMAN FRN/FRS-R. EQUIP DISCONNECT SWITCH WITH CLASS R REJECTION FUSE KITS. PROVIDE COMBINATION STARTERS FOR INDIVIDUAL MOUNTING, OR FOR GROUP MOUNTING IN MOTOR CONTROL CENTERS AS INDICATED. PROVIDE NEMA 1 ENCLOSURES UNLESS OTHERWISE INDICATED. PROVIDE NEMA 3R ENCLOSURE IN EXTERIOR OR DAMP LOCATIONS, UNLESS NOTED OTHERWISE.

MOTOR AND EQUIPMENT WIRING

- A. PROVIDE POWER AND CONNECT ALL MOTORS AND MOTOR DRIVEN EQUIPMENT SHOWN ON THE
- B. FURNISH, INSTALL AND CONNECT ALL OVER CURRENT AND DISCONNECT MEANS AS REQUIRED
- C. MOTORS AND MOTOR DRIVEN EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY OTHERS. MOTOR STARTERS, CONTROLLERS AND CONTROL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR EXCEPT AS OTHERWISE NOTED.
- D. INSTALL AND WIRE ALL MOTOR EQUIPMENT PER WIRING DIAGRAMS AND INSTRUCTIONS FURNISHED TO HIM, INCLUDING INTERLOCK WIRING BETWEEN EQUIPMENT.

- A. FURNISH AND INSTALL COMPLETE COMMUNICATIONS CONDUIT SYSTEM, INCLUDING RISER,
- B. CONDUIT FOR COMMUNICATIONS WALL OUTLET SHALL BE MINIMUM OF 1" UNLESS SHOWN
- C. COMMUNICATIONS OUTLET BOXES SHALL BE MINIMUM OF 4" SQUARE AND PLATES SHALL MATCH RECEPTACLE PLATES. PROVIDE FLOOR OUTLET WHERE SHOWN ON THE PLANS.
- E. NO WIRING SHALL BE INCLUDED IN THE COMMUNICATIONS CONDUIT SYSTEM, EXCEPT #14 NYLON PULL CORDS TO BE INSTALLED THROUGHOUT.
- F. CONDUIT SYSTEM SHALL BE CONTINUOUS FROM ALL OUTLETS TO COMMUNICATIONS CABINET REAM AND BUSH CONDUITS.

FIRE PENETRATION SEALS:

SEAL ALL PENETRATIONS FOR WORK OF THIS SECTION THROUGH FIRE RATED FLOOR, WALLS AND CEILING TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING, OR AFTER A FIRE. THE FIRE RATING OF THE PENETRATION 300-21 OF THE NATIONAL ELECTRICAL CODE. WHERE APPLICABLE, PROVIDE OZ TYPE CFSF/I AND CAFSF/I FIRE SEAL FITTINGS FOR CONDUIT AND CABLE PENETRATION SYSTEM, AND/OR IPC FLAME SAFE FIRE STOOP SYSTEM, AND/OR CHASE FOAM FIRE STOP SYSTEM, INCLUDING WALL WRAP, PARTITIONS, CAPS, AND OTHER ACCESSORIES AS REQUIRED. ALL MATERIALS TO COMPLY WITH UL 1479 (ASTM E-814). COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION OF SEALING FITTINGS AND BARRIER SEALING SYSTEMS.

- TEMPERATURE OF 3500°K AND A MINIMUM CRI OF 74. UNLESS NOTED OTHERWISE.
- BALLAST BEING UTILIZED.
- M. ALL LAMPS SHALL BE IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE
- SYSTEM OF THE GRID TYPE, EACH FIXTURE SHALL HAVE A SUPPORT WIRE AT OPPOSITE CORNER OF EACH RECESSED FIXTURE. EACH FIXTURE SHALL BE FASTENED TO THE GRID

T-BAR SHALL NOT BE CUT OUT TO PROVIDE ROOM FOR THE JUNCTION BOX.

SYSTEM IN ACCORDANCE WITH NEC ARTICLE 410-16(C) USING SUITABLE CLIPS. THE

MOTOR STARTERS AND CIRCUIT DISCONNECTS

INSTALLATIONS.

- IN ACCORDANCE WITH PUBLISHED INFORMATION AND AS REQUIRED FOR COMPLETE
- UNLESS NOTED. PROVIDE FUSIBLE SWITCHES WITH CLASS R REJECTION FUSE CLIP KITS.
- C. THERMAL OVERLOAD UNITS: PROVIDE THERMAL OVERLOAD UNITS, SIZED TO ACTUAL RUNNING FULL LOAD CURRENT, NOT TO MOTOR PLATE CURRENT. SIZE HEATERS FOR MECHANICAL EQUIPMENT AFTER AIR AND WATER BALANCING HAVE BEEN COMPLETED.

- BY THE NATIONAL ELECTRICAL CODE.
- THE ELECTRICAL CONTRACTOR EXCEPT AS OTHERWISE NOTED.

- COMMUNICATIONS CONDUIT SYSTEM

COMMUNICATIONS CABINETS, JUNCTION BOXES AND COMMUNICATIONS OUTLETS AS REQUIRED.

- OTHERWISE.
- D. BENDS IN CONDUITS SHALL BE LONG SWEEP BENDS.

SEAL SHALL BE AT LEAST THAT OF THE FLOOR, WALL OR CEILING INTO WHICH IT IS INSTALLED, SO THAT THE ORIGINAL FIRE RATING OF THE FLOOR OR WALL IS MAINTAINED AS REQUIRED BY ARTICLE

CLIENT

SOUTHERN

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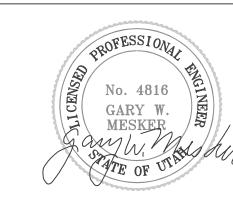
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PROFESSIONAL SEAL



11-28-06 | REVIEW COMMENTS

077005 DFCM CONTRACT NO: DFCM PROJECT NO: 06128730 BNA PROJECT NO: 06264SG.01 J. TRUJILLO DRAWN BY: CHECKED BY L. REMBER AS NOTED SCALE: DATE: OCTOBER 27, 2006

MARK DATE DESCRIPTION

SHEET TITLE

KEY PLAN

ELECTRICAL

EXIST. CKTS 3A-32,34,36,38,40

DEMOLITION PLAN
1/4"=1'-0"

SHEET KEYNOTES

- EXISTING RECESSED 2X4 LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. DISCONNECT AND REMOVE ALL ASSOCIATED CONDUIT AND WIRE WHICH IS NOT TO BE REUSED BACK TO ACCESSIBLE JUNCTION BOX AND LABEL AS SPARE.
- 2 EXISTING FIRE ALARM HEAT DETECTOR TO BE DISCONNECTED, REMOVED AND REINSTALLED IN NEW CEILING GRID. MAINTAIN EXISTING FIRE ALARM CIRCUIT.
- EXISTING SURFACE MOUNTED LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND WIRE WHICH IS NOT TO BE REUSED. MAINTAIN CIRCUITING OF DOWNSTREAM LIGHT FIXTURES.
- EXISTING TOGGLE SWITCH TO BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND WIRE.
- EXISTING DUPLEX RECEPTACLE TO BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO NEAREST ACCESSIBLE JUNCTION BOX AND LABEL AS SPARE. MAINTAIN CIRCUITING OF DOWNSTREAM DEVICES WHICH ARE NOT TO BE REMOVED.
- 6 EXISTING TELEPHONE/DATA OUTLET TO BE DISCONNECTED AND REMOVED BY CAMPUS I.T. PERSONAL
- $\overline{7}$ EXISTING LIGHTING CIRCUIT TO BE REUSED.
- 8 EXISTING SURFACE MOUNTED NON-METALLIC, TWO COMPARTMENT RACEWAY TO BE DISCONNECTED AND REMOVED. REMOVE ALL ASSOCIATED CONDUIT, WIRE, MOUNTING HARDWARE, ETC. DATA/TELEPHONE CABLING TO BE REMOVED BY CAMPUS I.T. PERSONAL.
- 9 EXISTING POWER/DATA FEEDS FOR SURFACE RACEWAY TO BE REMOVED. DISCONNECT AND REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO NEAREST ACCESSIBLE JUNCTION BOX ABOVE CEILING. EXISTING CIRCUITS TO BE REUSED.
- (10) EXISTING JUNCTION BOX WITH ALL ASSOCIATED CONDUIT AND WIRE TO BE REMOVED.
- EXISTING TOGGLE SWITCH TO BE REMOVED. PROVIDE NEW TOGGLE SWITCH AND EXTEND SWITCH LEGS AS REQUIRED TO NEW SWITCH LOCATION INDICATED ON SHEET E-201.
- EXISTING BELL TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION INDICATED ON SHEET E-301.
- EXISTING FIRE ALARM HORN TO BE DISCONNECTED REMOVED AND RELOCATED TO NEW LOCATION INDICATED ON SHEET E-301.
- EXISTING ELECTRIC WATER COOLER TO BE DISCONNECTED, REMOVED AND RELOCATED. EXTEND CONDUIT AND WIRING TO NEW ELECTRIC WATER COOLER LOCATION INDICATED ON SHEET E-301.

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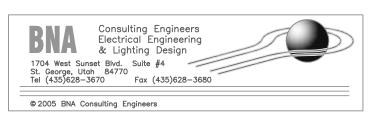
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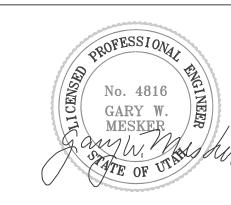
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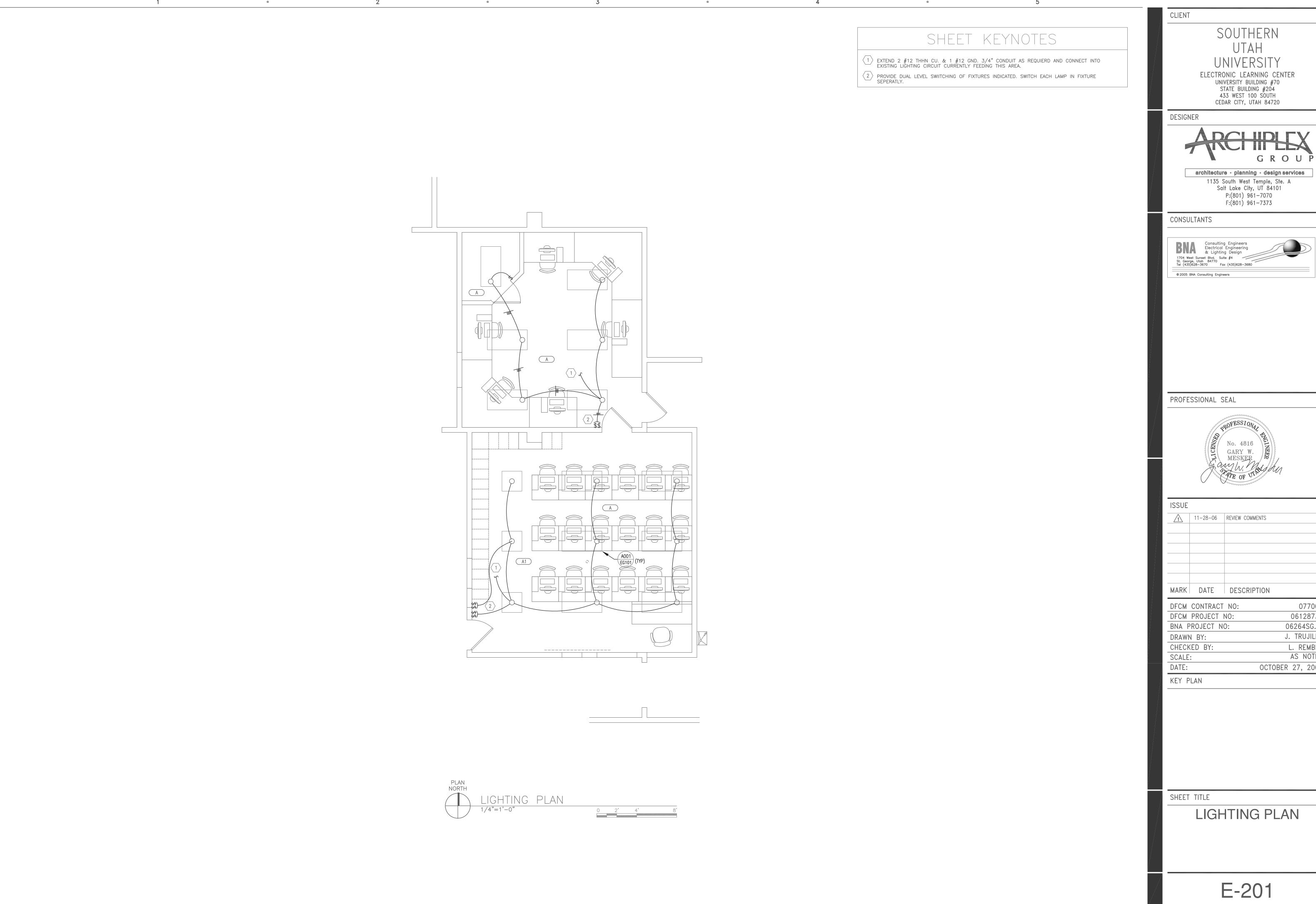


ISSUE		
1	11-28-06	REVIEW COMMENTS
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	077005
DFCM PROJECT NO:	06128730
BNA PROJECT NO:	06264SG.01
DRAWN BY:	J. TRUJILLO
CHECKED BY:	L. REMBER
SCALE:	AS NOTED
DATE:	OCTOBER 27, 2006
KEY PLAN	

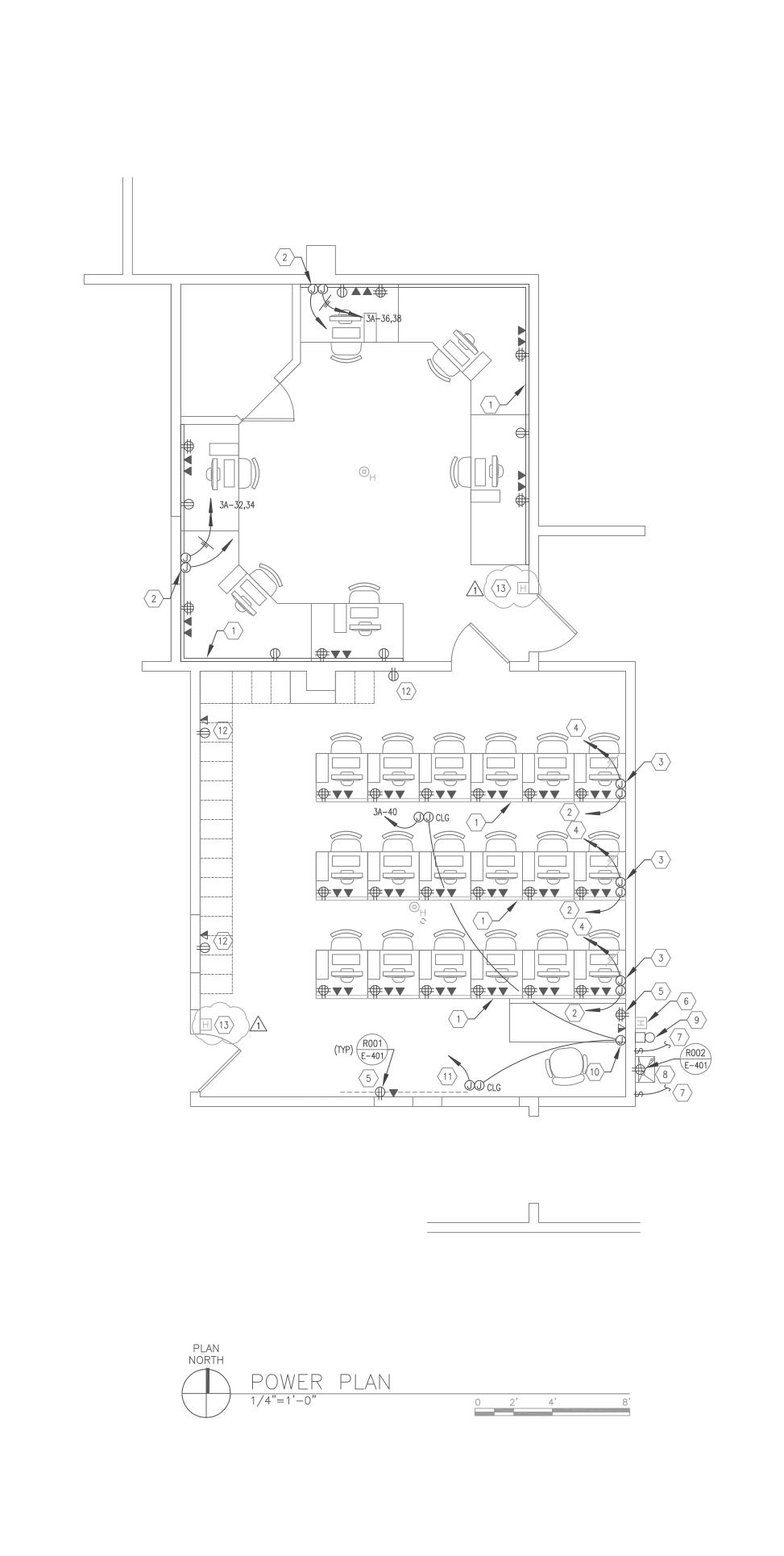
SHEET TITLE

DEMOLITION PLAN



ISSUE	_		
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KEY PLAN	



SHEET KEYNOTES

- PROVIDE WIREMOLD G5400 SERIES SURFACE MOUNTED, TWO COMPARTMENT RACEWAY MOUNTED UNDER DESK. REFER TO ARCHITECTURAL CABINET SECTIONS AND ELEVATIONS FOR EXACT LOCATION. PROVIDE POWER AND DATA OUTLETS AS INDICATED.
- PROVIDE (2) 1" CONDUITS FROM SURFACE RACEWAY TO ACCESSIBLE CEILING SPACE FOR DATA CABLING. CABLEING AND FINAL CONNECTIONS PROVIDED BY CAMPUS I.T. PERSONAL.
- 3 CONCEAL JUNCTION BOXES AND RACEWAY FROM CEILING TO WIREMOLD INSIDE WALL.
- CONTRACTOR TO FIELD VERIFY EXISTING CIRCUITS AVAILABLE IN THIS AREA PRIOR TO BID. AND PROVIDE (2) 20 AMP 120 VOLT CIRCUITS TO EACH ROW OF COMPUTER STATIONSAS INDICATED. IF ADDITIONAL CIRCUITS ARE REQUIRED PROVIDE ADDITIONAL CIRCUITS FROM EXISTING PANEL '3A' AS NECESSARY.
- CONNECT TO EXISTING RECEPTACLE CIRCUIT SERVING DEVICES IN THIS AREA WHICH WERE REMOVED DURING CONSTRUCTION.
- 6 EXTEND FIRE ALARM INDICATING CIRCUIT TO NEW LOCATION OF EXISTING FIRE ALARM SIGNAL HORN
- PROVIDE NEW TOGGLE SWITCH AND SWITCH LEG TO CONTROL EXISTING LIGHT FIXTURES WHICH
- NEW LOCATION OF ELECTRIC WATER COOLER. PROVIDE NEW DUPLEX RECEPTACLE AND CONNECT TO EXISTING WATER COOLER RECEPTACLE CIRCUIT.
- 9 NEW LOCATION OF EXISTING BELL. EXTEND CONDUIT AND WIRE AS NECESSARY AND MAKE FINAL CONNECTION.
- TEACHER CONTROL STATION. PROVIDE JUNCTION BOX WITH (1) 1" CONDUIT TO CEILING PROJECTOR LOCATION AND (1) 1" CONDUIT TO CEILING PROJECTOR SCREEN LOCATION. PROJECTOR CONTROL STATION, SCREEN AND CONTROL WIRING PROVIDED BY OWNER.
- PROVIDE CEILING JUNCTION BOX AND EXTEND 2 #12 THHN CU. & 1 #12 GND. AS REQUIRED AND CONNECT TO SPARE CIRCUIT IN PANEL '3A'. FINAL ELECTRICAL CONNECTION TO PROJECTOR SCREEN BY DIVISION 16.
- PROVIDE 20 AMP DUPLEX RECEPACLE AND CONNECT TO SPACE BREAKER IN EXISTING PANEL 3A.
- PROVIDE AND INSTALL FIRE ALARM SIGNAL HORN / STROBE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. EXTEND FIRE ALARM INDICATING CIRCUIT AS REQUIRED TO NEW DEVICE LOCATION.

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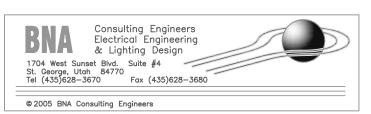
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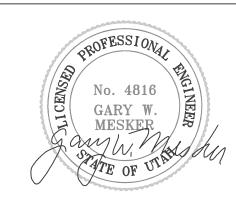
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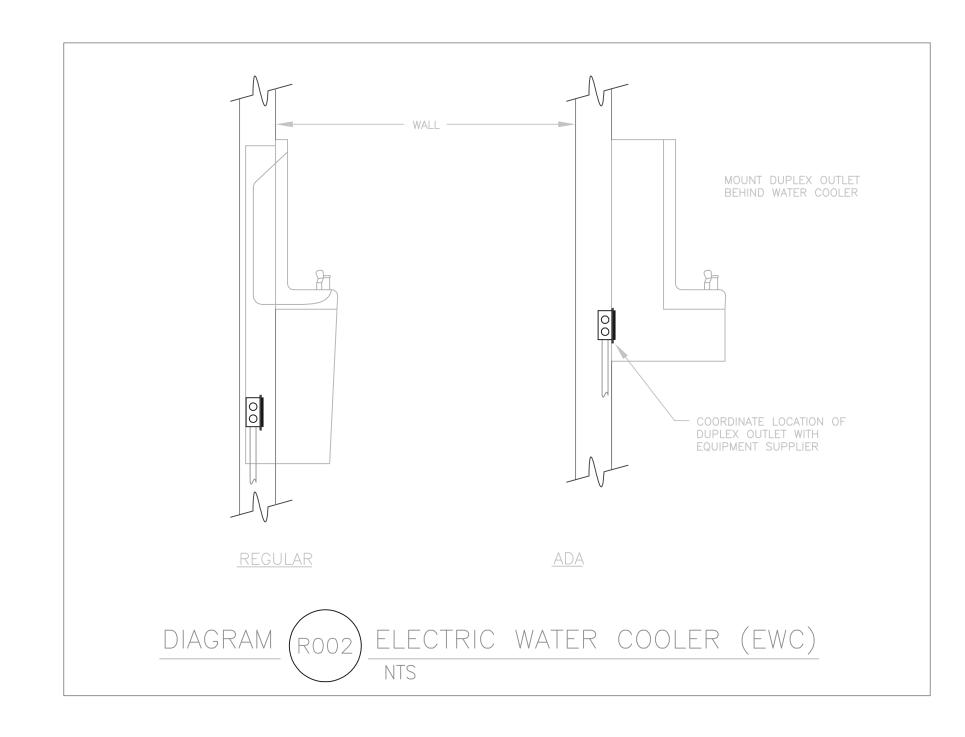
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MARK	DATE	DESCRIPTION

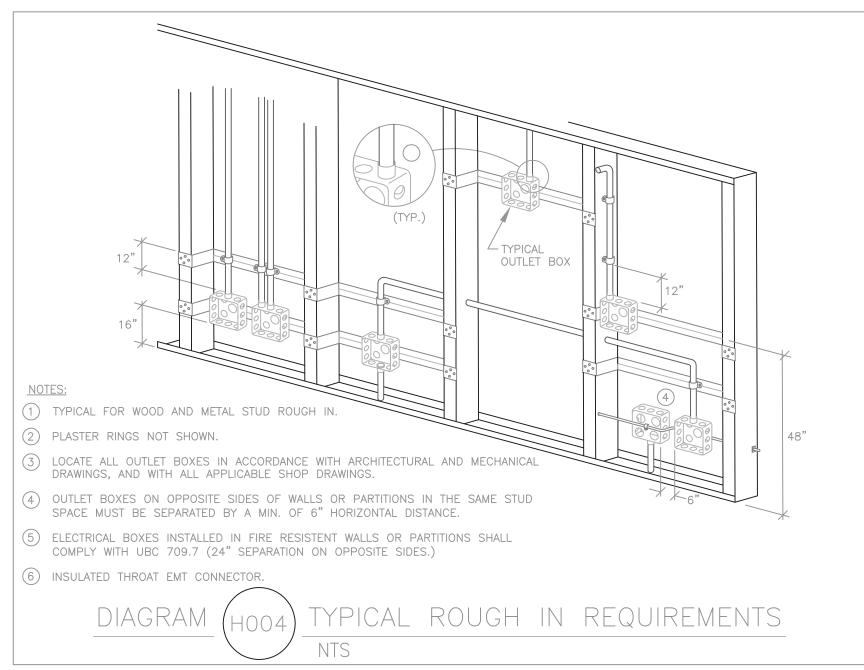
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DFCM PROJECT NO:	06128730
BNA PROJECT NO:	06264SG.01
DRAWN BY:	J. TRUJILLO
CHECKED BY:	L. REMBER
SCALE:	AS NOTED
DATE:	OCTOBER 27, 2006
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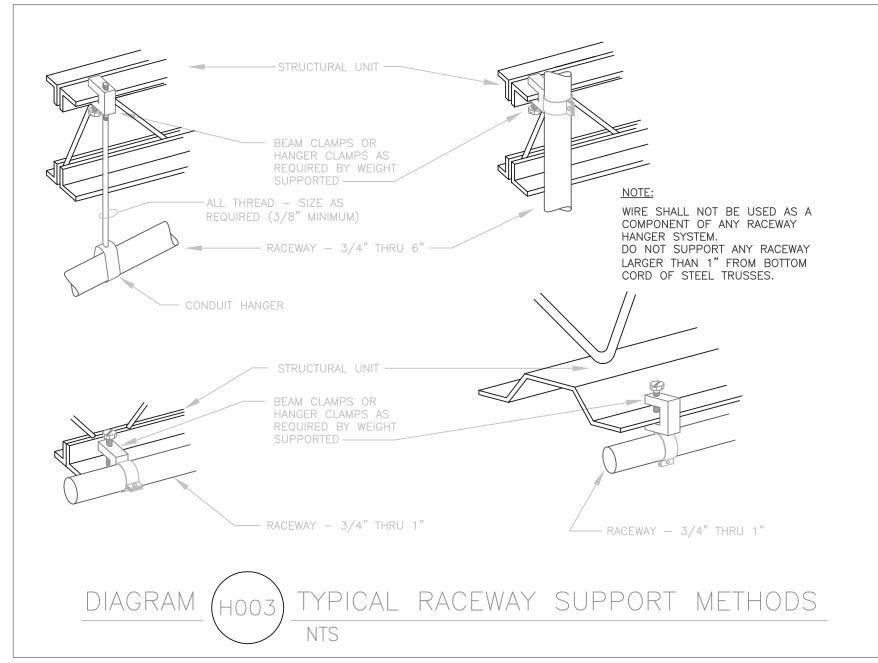
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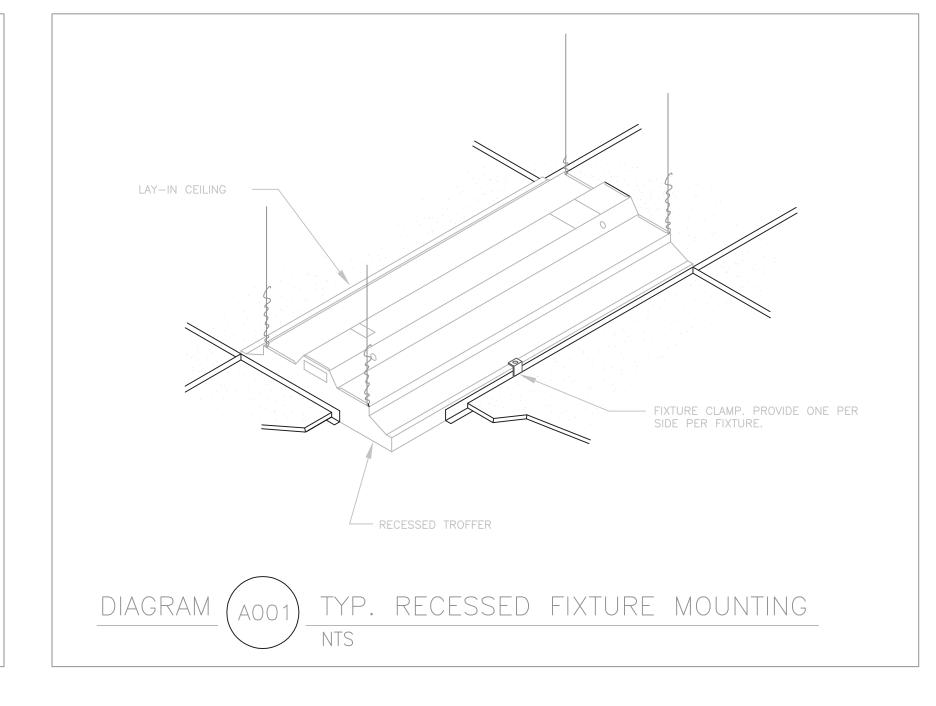
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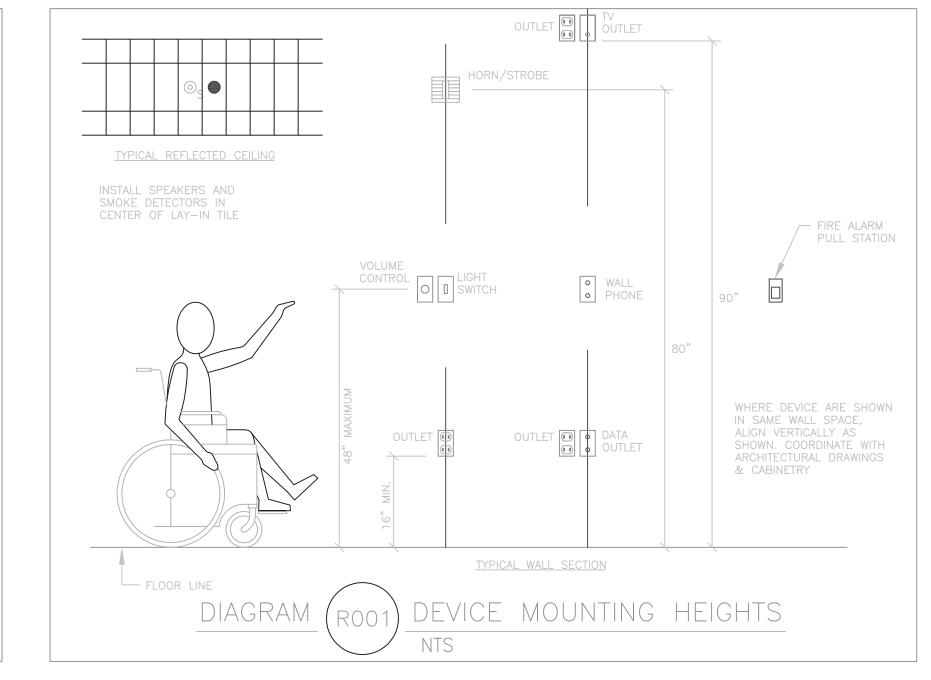
POWER PLAN











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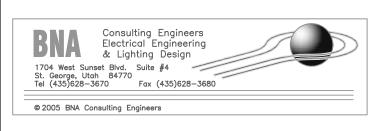
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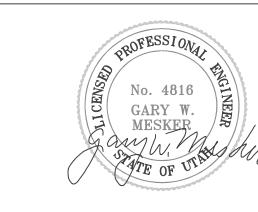
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ELECTRICAL DIAGRAMS